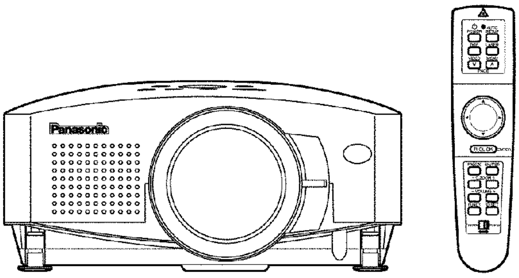
ORDER NO. VED0206331C0
D10

Service Manual

LCD Projector

PT-L720U / PT-L720E / PT-L520U / PT-L520E



SPECIFICATIONS

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power supply:
100 V - 240 V AC, 50 Hz / 60 Hz

Power consumption:
300 W [During standby (when fan is stopped): Approx. 1.7 W]

Amps:
3.5 A - 1.5 A

LCD panel:
Panel size (diagonal): 0.9 type (22.86 mm)
Aspect ratio: 4:3 (16:9 compatible)
Display method: 3 transparent LCD panels (RGB)
Drive method: Active matrix method
Pixels:
PT-L720U/E: 786 432 (1 024 × 768) × 3 panels
PT-L520U/E: 480 000 (800 × 600) × 3 panels

Lens:
Manual zoom (1 - 1.3) / focus lens
F 1.7 - 2.2, f 28.7 mm - 36 mm

Lamp:
UHM lamp (220 W)

Luminosity:
PT-L720U/E: 2 200 lm/ANSI
PT-L520U/E: 2 000 lm/ANSI

Scanning frequency (for RGB signals):
Horizontal scanning frequency:
PT-L720U/E: 31 kHz - 91 kHz
PT-L520U/E: 31 kHz - 70 kHz
Vertical scanning frequency:
50 Hz - 85 Hz
Dot clock frequency:
100 MHz or less

YPBPR signals:
525i (480i), 625i, 525p (480p), 750p (720p), HDTV60 (1080i/60), HDTV50 (1080i/50)

Color system:
7 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / PAL60 / SECAM)

Projection size:
1 016 mm - 7 620 mm

Throw distance:
1.2 m - 11.8 m

Optical axis shift:
9:1 (fixed)

Screen aspect ratio:
4:3

Installation:
Front / Rear / Ceiling / Desk (Menu selection method)

Speakers:
4.0 cm × 3.0 cm oval × 1

Max. useable volume output:
2 W (monaural)

Connectors:
RGB IN / OUT: Dual-line D-SUB HD 15-pin (female)
(One-line is available for input and output)
During YPBPR input/output:
Y: 1.0 V [p-p], 75 Ω
PBPR: 0.7 V [p-p], 75 Ω
During RGB input/output:
RGB: 0.7 V [p-p], 75 Ω
G.SYNC: 1.0 V [p-p], 75 Ω
HD / SYNC: TTL high impedance, automatic plus/minus polarity compatible
VD: TTL high impedance, automatic plus/minus polarity compatible
AUDIO IN (for RGB): Single-line 0.5 V [rms] M3 jack (Stereo MINI)
VIDEO IN: Single-line, RCA pin jack
1.0 V [p-p], 75 Ω
S-VIDEO IN: Single-line, Mini Din 4-pin
Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,
AUDIO IN (for S-VIDEO / VIDEO):
0.5 V [rms] RCA pin jack × 2 (L-R)
AUDIO OUT: Single-line 0.5 V [rms] M3 jack (Stereo MINI)
(Monitor output/stereo compatible)
0 V [rms] - 1.0 V [rms] (variable)
Serial connector: D-sub 9p (female) RS-232C compatible

Cabinet:
Molded plastic (ABS/PC)

Dimensions:
Width: 245 mm
Height: 118 mm
Length: 341 mm (without lens cover)

Weight:
3.9 kg

Operating environment:
Temperature: 0° C - 40° C
(0° C - 35° C when operating in highlands)
Humidity: 20 % - 80 % (no condensation)

Certifications:
PT-L720E/L520E: EN60950, EN55022, EN61000-3-2, EN61000-3-3, EN55024
PT-L720U/L520U: UL60950, FCC Class B

<Remote control unit>

Power supply:
3 V DC (AAA battery × 2)

Operating range:
Approx. 7 m
(when operated directly in front of signal receptor)

Dimensions:
Width: 33 mm
Height: 40 mm
Length: 168 mm
Weight: 108 g (including battery)

Accessories:

Remote control unit (N2QAEA000008):	1
AAA batteries for remote control unit :	2
Power cord:	
PT-L720E/L520E: K2CT3FZ00001 (U.K)	1
: K2CM3FZ00001 (continental)	1
PT-L720U/L520U: K2CG3FZ00008	1
Video/Audio cable [K2KA2FA00001 (3.0 m)**]:**	1
RGB signal cable [K1HB15FA0001 (3.0 m)**]:**	1
Carrying bag (TPEP007):	1

Options:

Ceiling bracket:	ET-PK730
Wireless mouse receiver:	ET-RMRC1
Wide conversion lens:	ET-LEC701

· Specifications are subject to change without notice.
· Weight and dimensions shown are approximate.

Please refer to the Operating Instructions in the appendix folder. / (Go to Appendix List)

Panasonic

Trademark Acknowledgements

- VGA and XGA are trademarks of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, Inc.
- S-VGA is a registered trademark of the Video Electronics Standards Association.
- Windows is a registered trademark of Microsoft Corporation.

All other trademarks are the property of the various trademark owners.

Precaution

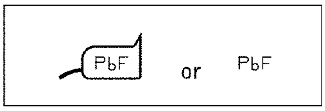
If using of this projector at high elevations (above 1 400 m), set FAN CONTROL to HIGH. (Refer to "Option settings" in Operating Instructions.)
Failure to observe this may cause malfunctions.
Never use this projector at an elevation of 2 700 m or higher.
Using this projector at high elevations, consult your dealer or Authorized Service Center about preparations.

About lead free solder (PbF)

This projector is using the P.C.Board which applies lead free solder. The use of lead free solder is recommended from the standpoint of antipollution for the global environment in service.
Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically, the melting point is 30°C to 40°C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370±10°C.
- Be precautious about lead free solder: Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board
For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

WARNING:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any unauthorized changes or modifications to this equipment will void the users authority to operate.

1. Safety Precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling this projector.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.
Be sure to use a voltmeter having the performance described in Table 1.

Fig. 1

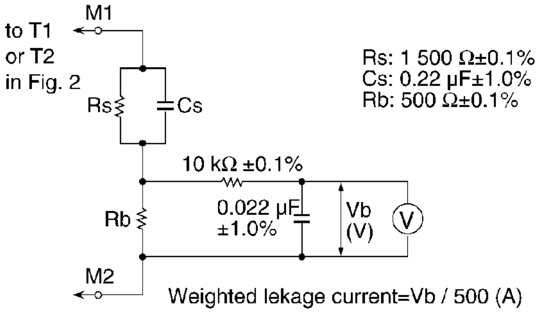
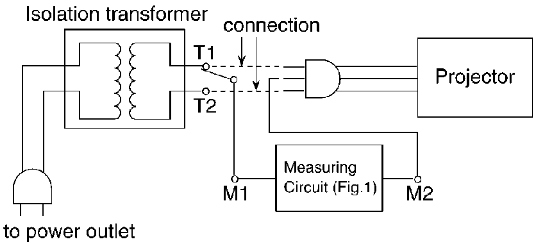

M1
to T1
or T2
in Fig. 2
Rs
Cs
Rs: 1 500 Ω±0.1%
Cs: 0.22 μF±1.0%
Rb: 500 Ω±0.1%
10 kΩ ±0.1%
Rb
0.022 μF
±1.0%
Vb
(V)
V
M2
Weighted lekage current=Vb / 500 (A)

Table 1

	Performance
Voltmeter (rms reading)	Accuracy: ≤ 2% Input resistance: ≥ 1 MΩ Input capacitance: ≤ 200 pF Frequency range: 15 Hz to 1 MHz

Fig. 2

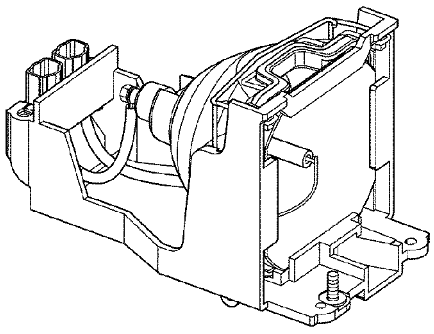


2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.
3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See Fig. 3)

Fig.3



2. Ext Option

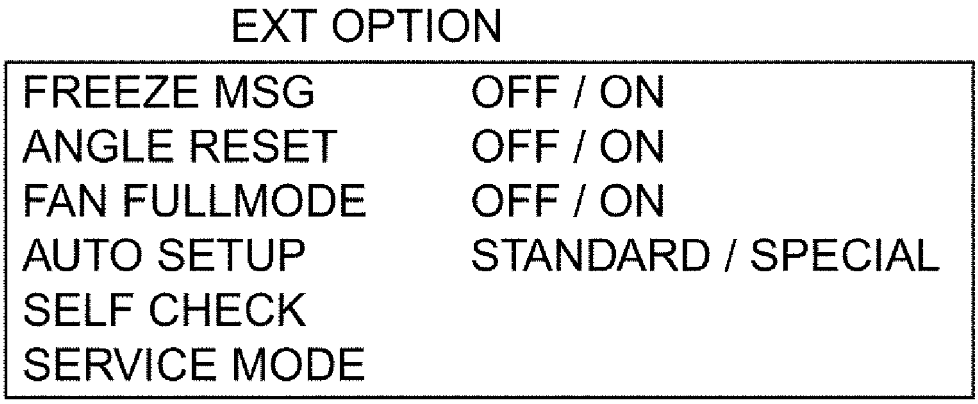
This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK and SERVICE MODE for service, etc.

2.1. Procedure to enter EXT OPTION

1. **Press "MENU" button on the main unit or remote control unit to display "MENU" screen, then select "OPTION1" and press "ENTER" button.**
2. **Select "OSD" on "OPTION1" menu and press "ENTER" button 3 seconds or longer.**
   MENU → OPTION1 → OSD

2.2. EXT OPTION Menu and Functions



EXT OPTION

FREEZE MSG	OFF / ON
ANGLE RESET	OFF / ON
FAN FULLMODE	OFF / ON
AUTO SETUP	STANDARD / SPECIAL
SELF CHECK	
SERVICE MODE	

- FREEZE MSG
Switching ON/OFF "FREEZE" on-screen display

- ANGLE RESET
Switching ON/OFF "AUTO KEYSTN (Automatic Keystone)" reference level setting

Note:

- Normally, do not select. (Angle reset data will be rewritten.)

- FAN FULLMODE
Switching ON "FAN FULLMODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULLMODE" is ON, changing "FAN CONTROL" in OPTION2 becomes impossible (setting FAN FULLMODE is given priority more than FAN CONTROL).

Caution:

- Switching ON "FAN FULLMODE" while used usually (at an elevation of lower than 1 400 m), this may cause malfunctions.
- AUTOSETUP
  Setting AUTO SETUP mode
- STANDARD: To set the normal mode (the dot clock is adjusted strictly))
- SPECIAL: To set the special mode (the dot clock is adjusted roughly)
- SELF CHECK
  To enter the self-check mode
- SERVICE MODE
  To enter the service mode

2.3. Canceling EXT OPTION

Press "MENU" button on the main unit or remote control unit.

3. Self-Check Mode

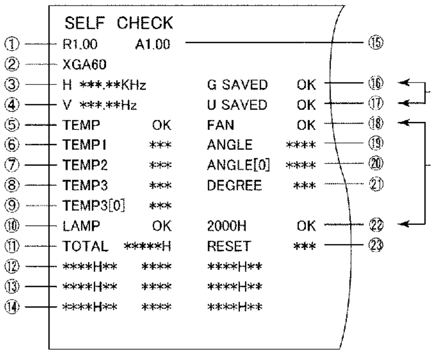
This mode is used to narrow down the location of the failure.

3.1. Procedure to enter the self-check mode

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

3.2. Self Check Display and Contents

Display example



* This display is an example and the display contents depend on the input signal mode.

- The result of items "G SAVED" and "U SAVED", "OK" is displayed for OK and "- -" is displayed for NG.
- The result of items "TEMP", "FAN", "LAMP" and "2000H", the OK display becomes red characters when shutting down because abnormality happened last time.

	Display Contents	Remarks	
①	Microcomputer Version Display	Software Version	
②	Resolution Name	Different display according to the input signal	
③	Horizontal Signal Frequency	RGB or YPBPR signal reception only	
④	Vertical Signal Frequency		
⑤	Temperature Abnormality Check	Cause of Lamp Malfanction	
⑥	Thermosensor 1 Measurement Value *1	Around Air Outlet (A/D conversion value: 0 - 255)	
⑦	Thermosensor 2 Measurement Value *1	Around Air Inlet (A/D conversion value: 0 - 255)	
⑧	Thermosensor 3 Measurement Value	Around Tilt Sensor (A/D conversion value: 0 - 255)	
⑨	Thermosensor 3 Reference Value	Thermosensor 3 A/D Conversion Value (0 - 255) at angle reset	
⑩	Lamp - Abnormality Check	Cause of Lamp Malfanction	
⑪	Total Usage Time	Projector Cumulative Usage Time	
⑫	Lamp ON - Cumulative Usage Time / Frequency / Cumulative Usage Time	Current	Cumulative Usage Time (actual time), ON Frequency and Cumulative Usage Time (conversion time for 220 W) of the lamp are shown from the left.
⑬		Second	
⑭		First	
⑮	FPGA Version Display *2	Software Version	
⑯	Gamma Correction Data Check	It is distinguished whether gamma data is stored in the flash ROM.	
⑰	Color Unevenness Correction Data Check	It is distinguished whether color unevenness correction data is stored in the flash ROM.	
⑱	Fan Stop Check	Cause of Lamp Malfanction	
⑲	Tilt Sensor Measurement Value	A/D Conversion Value (0 - 1023)	
⑳	Tilt Sensor Reference Value	Tilt Sensor A/D Conversion Value (0 - 1023) at angle reset	
㉑	Tilt Degree *3	Degree of tilt of the projector, that is a value by which temperature correction is given to the tilt sensor A/D conversion value. (When automatic keystone, the keystone distortion is corrected with this value.)	
㉒	Lamp - Judgment for Cumulative Usage more than 2 000 h *4	Judgment for Replacement Time of Lamp	
㉓	Lamp - Reset Frequency of Cumulative Usage Time	Reset Frequency (0 - 255)	

*1 When detected abnormal temperature (high temperature around the air inlet and/or outlet ports, large difference between temperature around the air inlet/outlet ports), TEMP indicator turned on. If arriving at the critical temperature, the power supply will be shutdown automatically and the indicator will flash.

*2 FPGA (Field Programmable Gate Array)
LSI that is rewritable quickly while inspecting the program by system designer.
(This will be able to reduce the development time.)

*3 When "AUTO KEYSTN (Automatic Keystone)" is set to ON, the keystone distortion is corrected automatically with this value during automatic setup.

*4 Warning of the lamp cumulative usage time and shutdown use the conversion time for 220 W.

3.3. Canceling the self-check mode

Press "MENU" button on the main unit or remote control unit.

4. Service Mode

This mode is used to display five kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch and White (No pattern)] in the four colors (White, Red, Green and Blue).

Note:

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for

simplified adjustments by your eyes and so on.

4.1. Procedure to enter the service mode

Select "SERVICE MODE" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

- In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button allows the test pattern selection and theleft-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

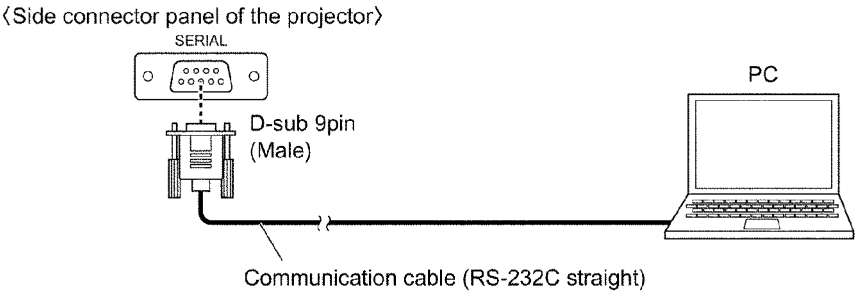
4.2. Canceling the service mode

Press "MENU" button on the main unit or remote control unit.

5. Using the SERIAL Connector

The serial connector which is on the side connector panel of the projector conforms to RS-232C standard. This projector can be controlled by a PC which is connected as shown in "5.1. Connection". For controlling this projector by aPC, requires communication software on the market, and inputs control commands according to communication settings and basic format below.

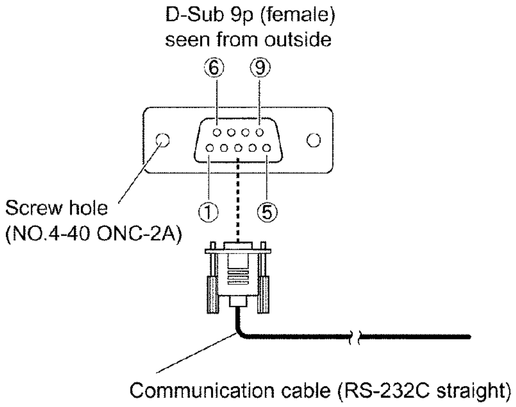
5.1. Connection


〈Side connector panel of the projector〉
SERIAL
PC
D-sub 9pin
(Male)
Communication cable (RS-232C straight)

Note:

Use a proper communication cable which is suitable for the PC to connect SERIAL connector and the PC.

5.2. Pin Layout and Signal Names for SERIAL Connector


D-Sub 9p (female)
seen from outside
⑥
⑨
Screw hole
(NO.4-40 ONC-2A)
①
⑤
Communication cable (RS-232C straight)

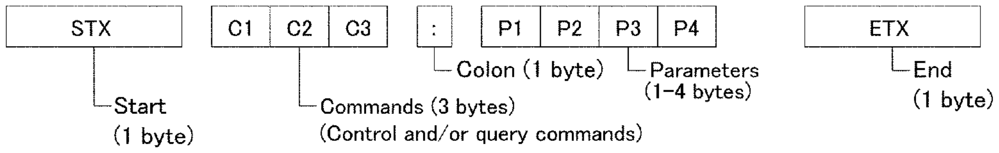
Pin No	Signal Name	Contents
1	---	NC
2	TXD	Transmit data
3	RXD	Receive data
4	---	NC
5	GND	Ground
6	DSR	Connected internally
7	CTS	
8	RTS	
9	---	NC

5.3. Communication Settings

Signal Level	Contents		Description
Sync. method	Conforms to RS-232C standard	Asynchronous	Synchronizes every 1 charact bits)
Baud rate		9 600 bps	Data transfer speed
Parity		None	Error detection method
Character length		8 bits	Number of bit composing 1 cl
Stop bit		1 bit	Uses stop bit when asynchro method
X parameter		Not used	
S parameter		Not used	

5.4. Basic Format

The data sent from the PC to the projector is transmitted in the format shown below.


STX
C1
C2
C3
:
P1
P2
P3
P4
ETX
Start
(1 byte)
Commands (3 bytes)
(Control and/or query commands)
Colon (1 byte)
Parameters
(1-4 bytes)
End
(1 byte)

Notes:

- **If sending multiple commands, check that a call back has been received from the projector for 1 command before sending the next command.**
- **When a command which does not require parameters is sent, the colon (:) is not required.**

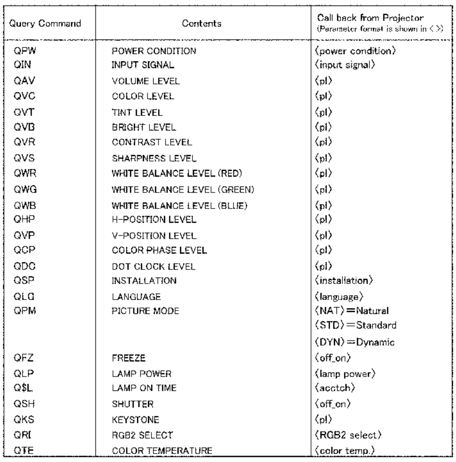
5.5. Control/ Query Commands

Control Commands

Command Name (Parameter format is shown in < >)	Function / Contents	Call back from Projector (Parameter format is shown in< >)	Minimum Value of Parameter	Maximum Value of Parameter
PON *	POWER ON	PON	——	——
POF *	POWER OFF	POF	——	——
AVL :〈pl〉	VOLUME	AVL :〈pl〉	0	63
IIS :〈input signal〉	INPUT SELECT	IIS :〈input signal〉	——	——
OST	STANDARD	OST	——	——
OFZ :〈off_on〉	FREEZE	OFZ :〈off_on〉	0	1
OEN :	ENTER	OEN	——	——
VPM :〈picture mode〉	PICTURE MODE	VPM :〈picture mode〉	——	——
〈NAT〉	Natural	〈NAT〉	——	——
〈STD〉	Standard	〈STD〉	——	——
〈DYN〉	Dynamic	〈DYN〉	——	——
AUU	VOLUME UP	AUU		
AUD	VOLUME DOWN	AUD		
OMN	MENU	OMN		
OCU	CURSOR UP	OCU		
OCD	CURSOR DOWN	OCD		
OCL	CURSOR LEFT	OCL		
OCR	CURSOR RIGHT	OCR		
OAS	AUTO SETUP	OAS		
OSH *	SHUTTER	OSH		
OIX	INDEX WINDOW (Double)	OIX		
DZU	D.ZOOM UP	DZU		
DZD	D.ZOOM DOWN	DZD		
OLP :〈lamp power〉 *	LAMP POWER	OLP :〈lamp power〉	0	1

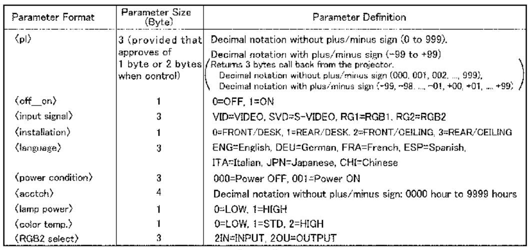
* Do not transmit the PON, POF, OSH and/or OLP commands continuously in a short time.
The lamp may be damaged and/or cause malfunctions.

Query Commands



Query Command	Contents	Call back from Projector (Parameter format is shown in 〈 〉)
QPW	POWER CONDITION	〈power condition〉
QIN	INPUT SIGNAL	〈input signal〉
QAV	VOLUME LEVEL	〈pl〉
QVC	COLOR LEVEL	〈pl〉
QVT	TINT LEVEL	〈pl〉
QVB	BRIGHT LEVEL	〈pl〉
QVR	CONTRAST LEVEL	〈pl〉
QVS	SHARPNESS LEVEL	〈pl〉
QWR	WHITE BALANCE LEVEL (RED)	〈pl〉
QWG	WHITE BALANCE LEVEL (GREEN)	〈pl〉
QWB	WHITE BALANCE LEVEL (BLUE)	〈pl〉
QHP	H-POSITION LEVEL	〈pl〉
QVP	V-POSITION LEVEL	〈pl〉
QCP	COLOR PHASE LEVEL	〈pl〉
QDC	DOT CLOCK LEVEL	〈pl〉
QSP	INSTALLATION	〈installation〉
QLG	LANGUAGE	〈language〉
QPM	PICTURE MODE	〈NAT〉＝Natural 〈STD〉＝Standard 〈DYN〉＝Dynamic
QFZ	FREEZE	〈off_on〉
QLP	LAMP POWER	〈lamp power〉
Q$L	LAMP ON TIME	〈acctch〉
QSH	SHUTTER	〈off_on〉
QKS	KEYSTONE	〈pl〉
QRI	RGB2 SELECT	〈RGB2 select〉
QTE	COLOR TEMPERATURE	〈color temp.〉

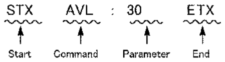
Parameters



Parameter Format	Parameter Size (Byte)	Parameter Definition
〈pl〉	3 (provided that approves of 1 byte or 2 bytes when control)	Decimal notation without plus/minus sign (0 to 999). Decimal notation with plus/minus sign (-99 to +99) (Returns 3 bytes call back from the projector. Decimal notation without plus/minus sign (000, 001, 002, ..., 999), Decimal notation with plus/minus sign (-99, -98, ..., -01, +00, +01, ... +99))
〈off__on〉	1	0=OFF, 1=ON
〈input signal〉	3	VID=VIDEO, SVD=S-VIDEO, RG1=RGB1, RG2=RGB2
〈installation〉	1	0=FRONT/DESK, 1=REAR/DESK, 2=FRONT/CEILING, 3=REAR/CEILING
〈language〉	3	ENG=English, DEU=German, FRA=French, ESP=Spanish, ITA=Italian, JPN=Japanese, CHI=Chinese
〈power condition〉	3	000=Power OFF, 001=Power ON
〈acctch〉	4	Decimal notation without plus/minus sign: 0000 hour to 9999 hours
〈lamp power〉	1	0=LOW, 1=HIGH
〈color temp.〉	1	0=LOW, 1=STD, 2=HIGH
〈RGB2 select〉	3	2IN=INPUT, 2OU=OUTPUT

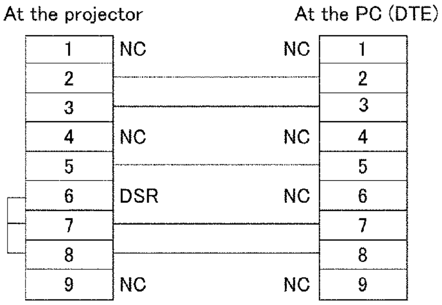
* If an incorrect command is sent from the PC, the "ER401" command will be sent from the projector to the PC.

[Example]
When controls the audio volume to +30 by a PC
(Sends commands as the following:)



- **When a command which does not require parameters is sent, the colon (:) is not required.**

5.6. Communication Cable Specifications



5.7. Signal Selector Connecting Cable Specifications

When connecting to a signal selector (ex. TW-SWS62J), use a cable with specifications below. Connecting method: Connects a video signal cable from the signal selector to "VIDEO IN", and an RGB signal cable to "RGB1 IN".

At the signal selector D-sub 9p (male)		At the projector (DCE) D-sub 9p (male)	
Signal Name	Pin No.	Pin No.	Signal Name
NC	1	1	NC
RD Receive data	2	2	SD Transmit data
SD Transmit data	3	3	RD Receive data
NC	4	4	NC
GND Ground	5	5	GND Ground
NC	6	6	DSR
RS Transmit request	7	7	CS Transmit permission
CS Transmit permission	8	8	RS Transmit request
NC	9	9	NC

Note:

Set VP control terminal switch of the signal selector to VP TYPE "B".

6. Disassembly Instructions

Warning:

- Be sure to unplug the power cord from the power outlet before disassembling this projector.

Caution:

- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.

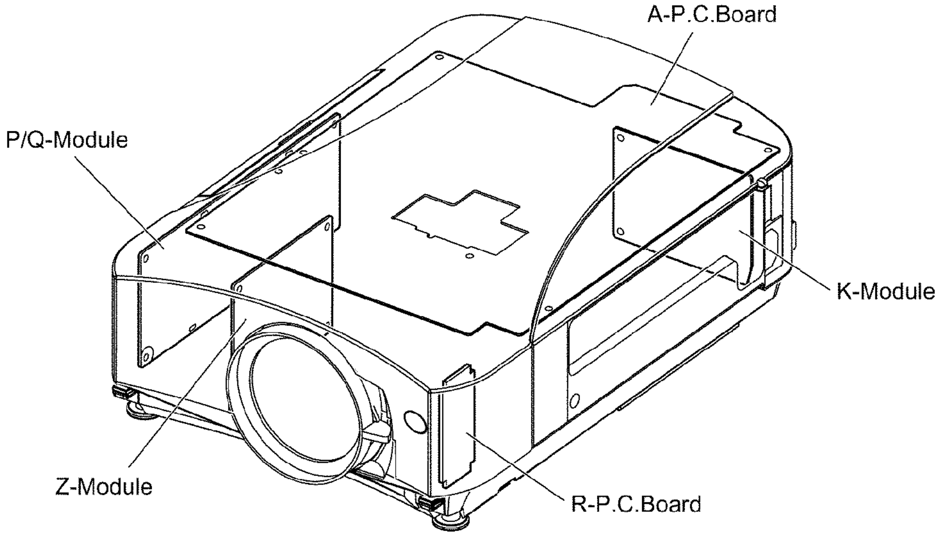
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.

- Connectors also must be handled carefully.

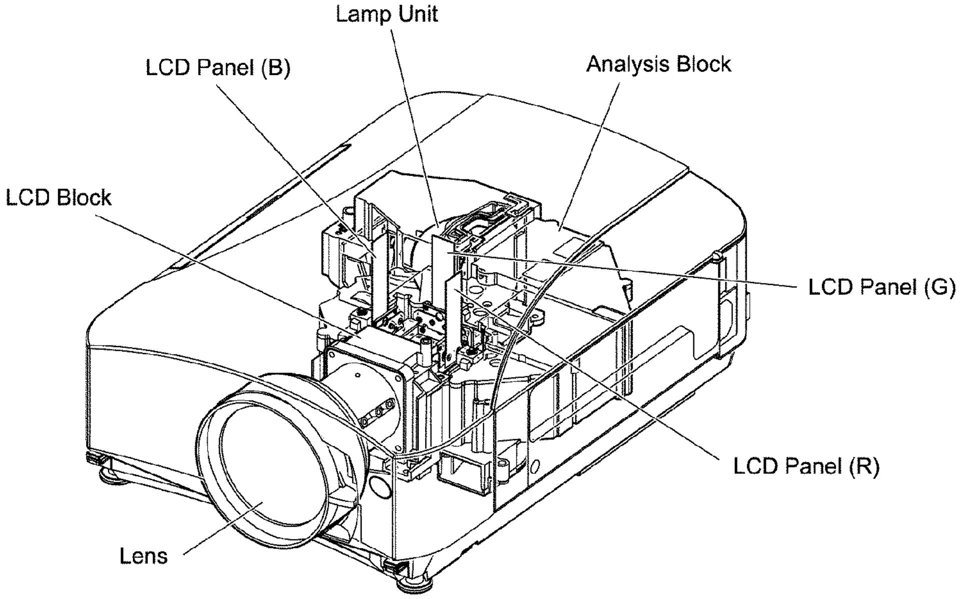
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

6.1. Printed Circuit Board and Main Parts Location

Electrical Parts


A-P.C.Board
P/Q-Module
K-Module
Z-Module
R-P.C.Board

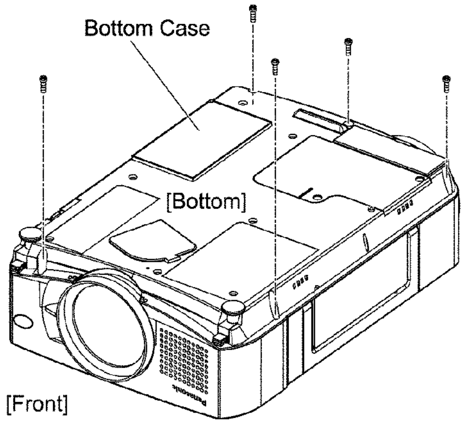
Optical Parts


Lamp Unit
LCD Panel (B)
Analysis Block
LCD Block
LCD Panel (G)
LCD Panel (R)
Lens

6.2. Removal of Upper Case

1. Turn the projector upside down.

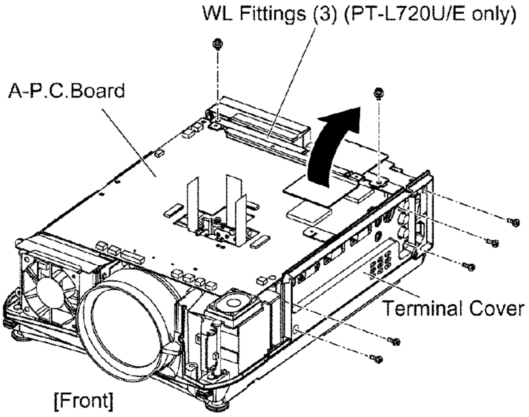
2. Unscrew the 5 screws fixing the upper case.


Bottom Case
[Bottom]
[Front]

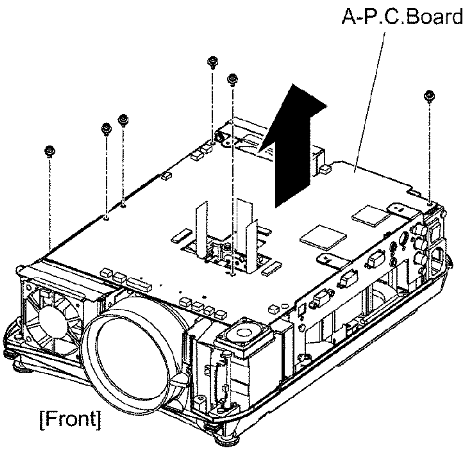
3. **Return the projector to the normal position.**
4. **Remove the upper case.**

6.3. Removal of A-P.C.Board

1. **Remove the upper case according to the section 6.2. "Removal of Upper Case".**
2. **For PT-L720U/E, unscrew the 2 screws and remove the WL-fittings (3).**
3. **Disconnect the connectors from/to the A-P.C.Board.**
4. **Unscrew the 5 screws and remove the terminal cover.**

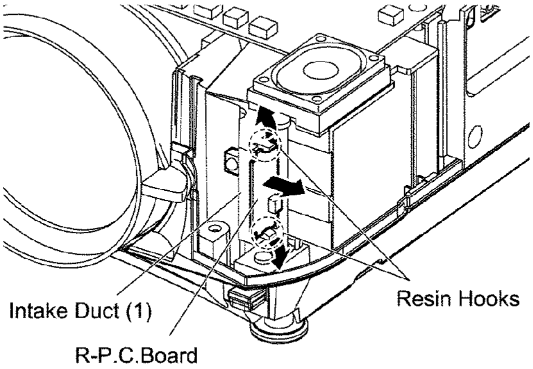

WL Fittings (3) (PT-L720U/E only)
A-P.C.Board
Terminal Cover
[Front]

5. **Unscrew the 6 screws and remove the A-P.C.Board.**



6.4. Removal of R-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Disconnect the 1 connector.
3. Unhook resin hooks of the intake duct (1) and remove the R-P.C.Board.

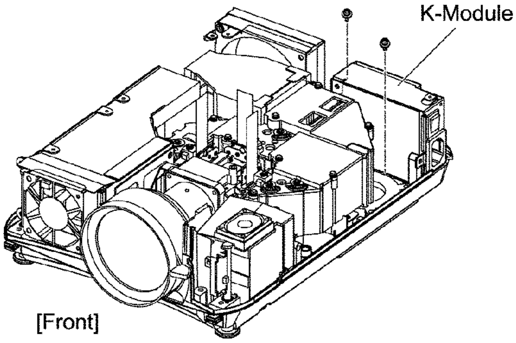


6.5. Removal of K-Module

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".
3. Unscrew the 2 screws fixing the K-Module.
4. While disconnecting the connector, remove the K-Module.

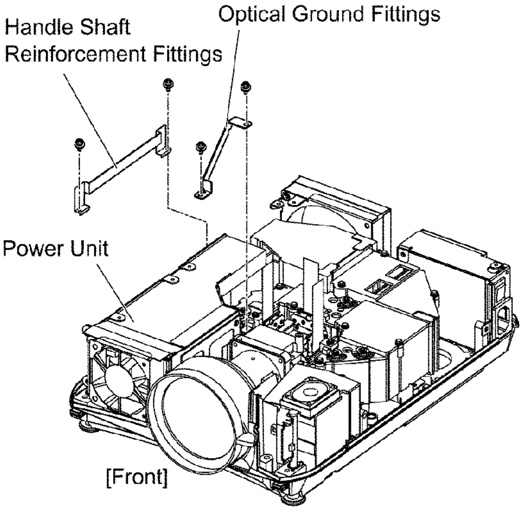
Note:

- Pay attention the cable processing.

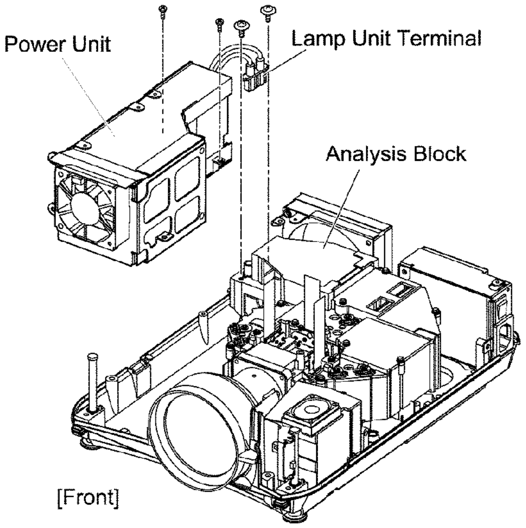

K-Module
[Front]

6.6. Removal of P/Q-Module

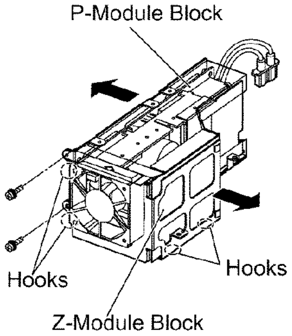
1. **Remove the upper case according to the section 6.2. "Removal of Upper Case".**
2. **Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".**
3. **Unscrew the 2 screw and remove the optical ground fittings.**
4. **Unscrew the 2 screw and remove the handle shaft reinforcement fittings from the bottom case.**


Handle Shaft
Reinforcement Fittings
Optical Ground Fittings
Power Unit
[Front]

5. **Unscrew the 2 screws and remove the lamp unit terminal from the analysis block.**
6. **Unscrew the 2 screws fixing the power unit.**


Power Unit
Lamp Unit Terminal
Analysis Block
[Front]

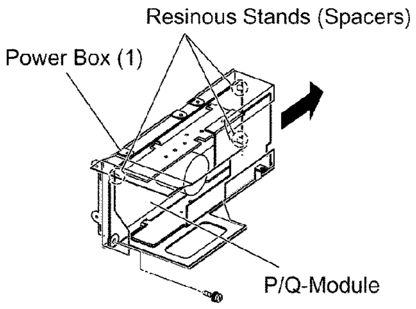
7. **While disconnecting the connector, take the power unit out.**
8. **Unscrew the 2 screws.**
9. **While unhooking the hooks, separate the P/Q-Module block and the Z-Module block.**

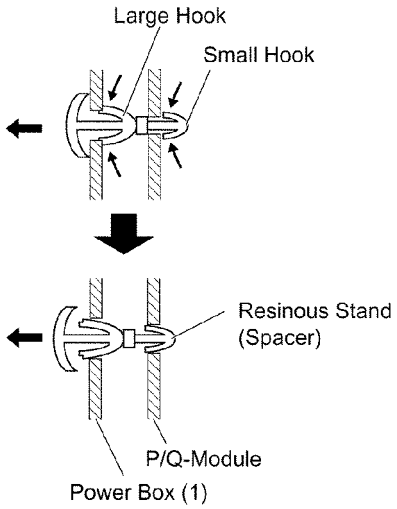

P-Module Block
Hooks
Hooks
Z-Module Block

10. **Unscrew the 1 screw fixing the P/Q-Module.**
11. **Remove the 3 resinous stands (spacers), then separate the P/Q-Module and the power box (1).**

Note:

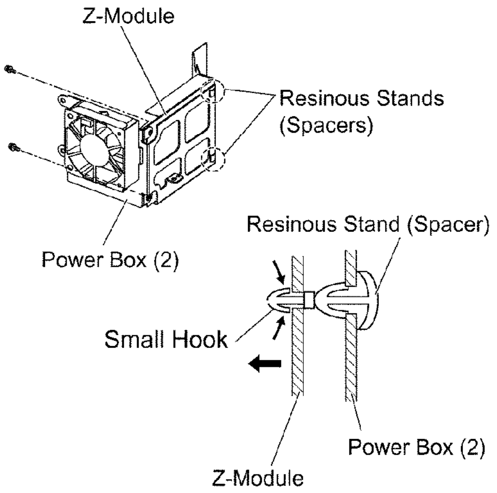
- **The resinous stands (spacers) are removed; first, each large hook is shut while applying force in the arrow direction with a radio pincers etc., next, each small hook is shut.**


Resinous Stands (Spacers)
Power Box (1)
P/Q-Module


Large Hook
Small Hook
Resinous Stand
(Spacer)
P/Q-Module
Power Box (1)

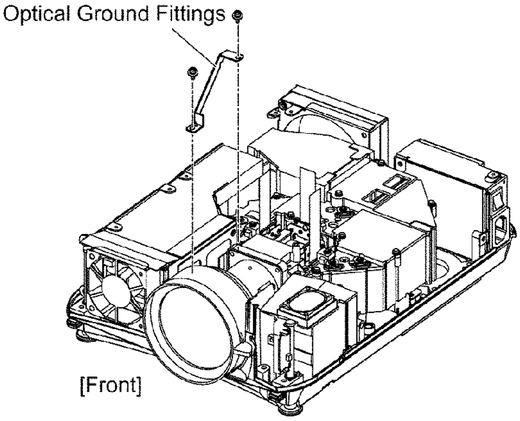
6.7. Removal of Z-Module

1. **Separate the P/Q-Module block and the Z-Module block according to the steps 1 through 9 in the section 6.6. "Removal of P/Q-Module".**
2. **Unscrew the 2 screw fixing the Z-Module.**
3. **While pressing to shut each small hook of the resinous stands (spacers), remove the Z-Module.**

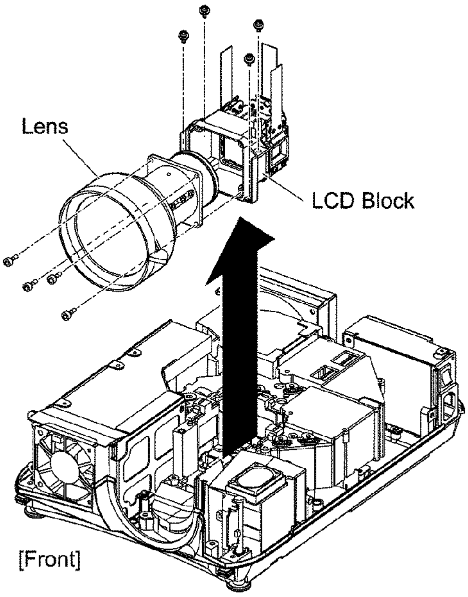

Z-Module
Resinous Stands
(Spacers)
Power Box (2)
Resinous Stand (Spacer)
Small Hook
Power Box (2)
Z-Module

6.8. Removal of LCD Block and Lens

1. **Remove the upper case according to the section 6.2. "Removal of Upper Case".**
2. **Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".**
3. **Unscrew the 2 screws and remove the optical ground fittings.**

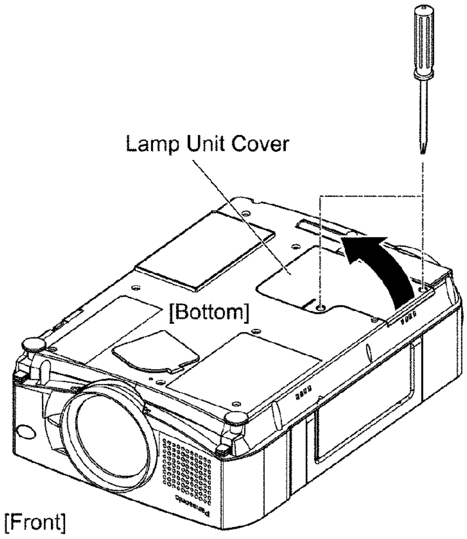

Optical Ground Fittings
[Front]

4. **Unscrew the 4 screws and take the LCD block with lens out.**
5. **Unscrew the 4 screws, then separate the LCD block and the lens.**

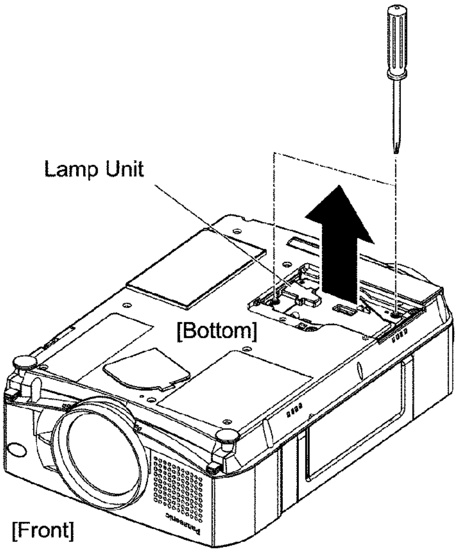

Lens
LCD Block
[Front]

6.9. Removal of Lamp Unit

1. **Turn the projector upside down.**
2. **Loosen the 2 screws until they idle, lift the lamp unit cover to remove.**

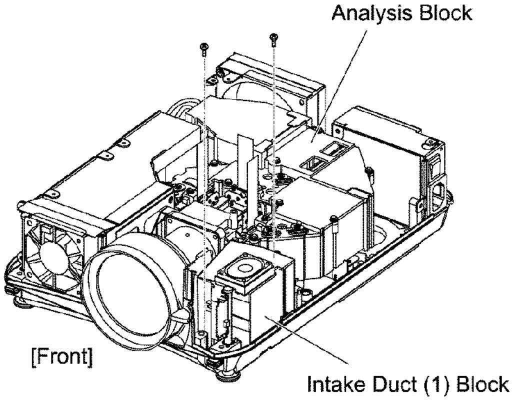

Lamp Unit Cover
[Bottom]
[Front]

3. **Loosen the 2 screws fixing the lamp unit until they idle, remove the lamp unit.**


Lamp Unit
[Bottom]
[Front]

6.10. Removal of Analysis Block

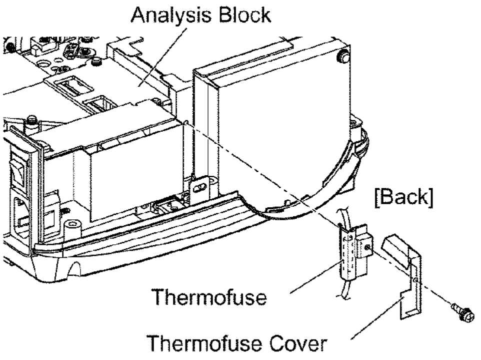
1. Remove the lamp unit according to the section 6.9. "Removal of Lamp Unit".
2. Remove the upper case according to the section 6.2. "Removal of Upper Case".
3. Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".
4. Unscrew the 2 screws and remove the intake duct (1) block (with R-P.C.Board).


Analysis Block
[Front]
Intake Duct (1) Block

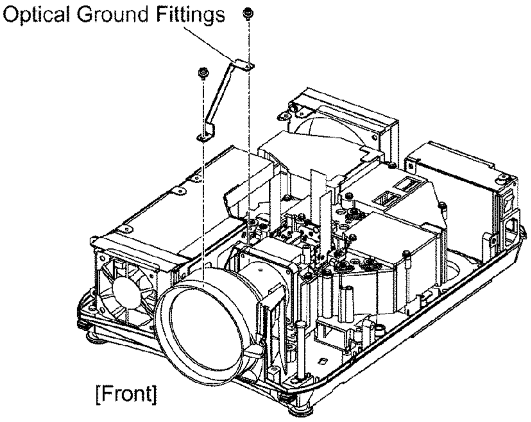
5. Unscrew the 1 screw, then remove the thermofuse cover and the thermofuse.

Note:

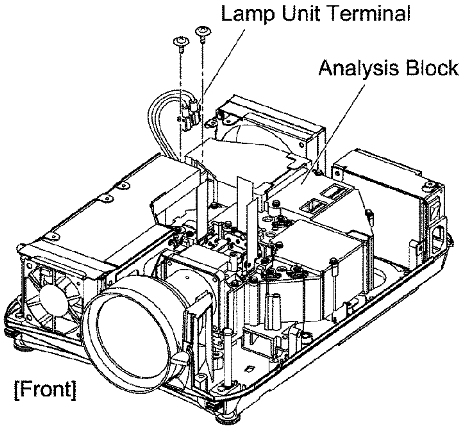
- **It is possible to work while wired.**


Analysis Block
[Back]
Thermofuse
Thermofuse Cover

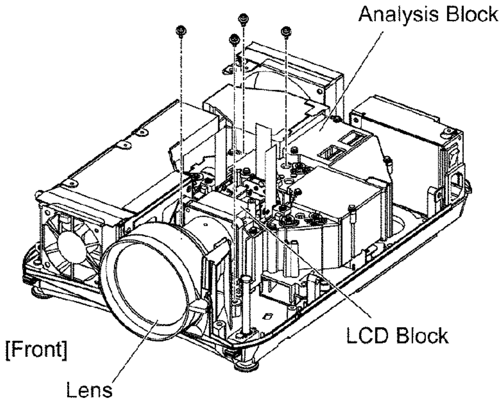
6. Unscrew the 2 screws and remove the optical ground fittings.


Optical Ground Fittings
[Front]

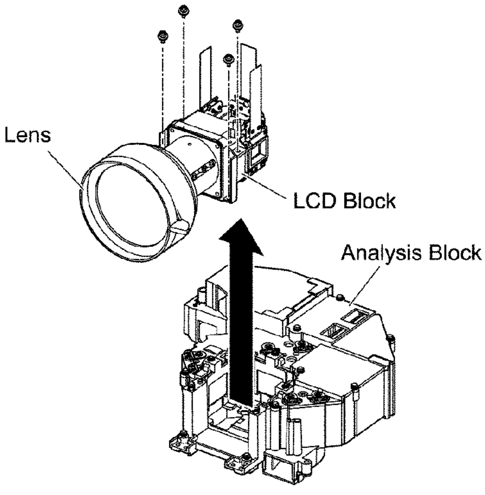
7. Unscrew the 2 screws and remove the lamp unit terminal from the analysis block.


Lamp Unit Terminal
Analysis Block
[Front]

8. Unscrew the 4 screws and take the analysis block and LCD block with lens out.


Analysis Block
[Front]
LCD Block
Lens

9. **Unscrew the 4 screws, then separate the analysis block and the LCD block with lens.**


Lens
LCD Block
Analysis Block

6.11. Replacement of LCD Panel

1. **Take the LCD block with lens out according to the steps 1 through 4 in the section 6.8. "Removal of LCD Block and Lens".**
2. **Unscrew the 4 screws and replace the LCD panel. (Remove the old LCD panel and install a new one.)**

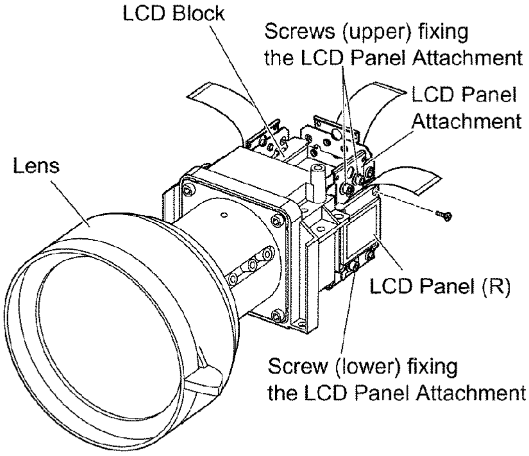
Note:

- Be careful not to touch the LCD panel surface.

3. **Use a hexagon head wrench, loosen the 3 screws fixing the LCD panel attachment and screw them temporarily just until the LCD panel can be shifted by your fingers.**

Note:

- Work carefully not to damage the flexible cable.

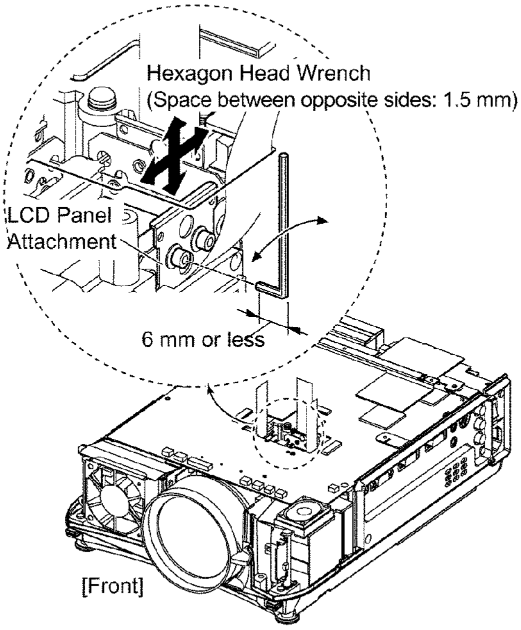

LCD Block
Screws (upper) fixing the LCD Panel Attachment
LCD Panel Attachment
Lens
LCD Panel (R)
Screw (lower) fixing the LCD Panel Attachment

4. **Reassemble the projector in the reverse order of disassembling, but leave the upper case as it is removed.**
5. **Adjust the convergence according to the section 7.4. "Convergence Adjustment".**
6. **After the adjustment, screw the 2 screws (upper) fixing the LCD panel attachment temporarily with care not to vary the adjusting result.**

Notes:

- Work carefully not to damage the flexible cable.

- Prepare a hexagon head wrench as shown in figure below.


Hexagon Head Wrench
(Space between opposite sides: 1.5 mm)
LCD Panel
Attachment
6 mm or less
[Front]

7. Remove the LCD block with lens again.

8. Tighten the 3 screws fixing the LCD panel attachment.

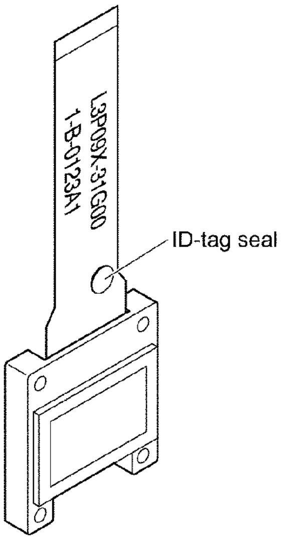
Note:

- Work carefully not to damage the flexible cable.

9. Reassemble the projector as it was.

6.12. LCD Panel Discrimination

- Since the ID-tag seal is pasted to the FPC of LCD Panl, (R), (G) or (B) can be easily identified by the color of the seal.
- Finally, identify the panel color by the part number printed on the FPC.


L3P09X-31G00
1-B-0123A1
ID-tag seal

ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

6.13. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.

- When replacing LCD Panel, use a component which has the same part number as the original.

Model number	LCD panel	Combination 1	Combination 2
PT-L720U/E	R	L5BDAXQ00095 / (L3P09X-31G00)	L5BDAXQ00098 / (L3P09X-32G00)
	G	L5BDAXQ00099 / (L3P09X-31G00)	L5BDAXQ00096 / (L3P09X-32G00)
	B	L5BDAXQ00097 / (L3P09X-31G00)	L5BDAXQ00100 / (L3P09X-32G00)
PT-L520U/E	R	L5BDAXN00025 / (L3P09S-21G01)	L5BDAXN00028 / (L3P09S-22G01)
	G	L5BDAXN00026 / (L3P09S-21G01)	L5BDAXN00029 / (L3P09S-22G01)
	B	L5BDAXN00027 / (L3P09S-21G01)	L5BDAXN00030 / (L3P09S-22G01)

6.14. Replacement of Polarizer

1. **Remove the upper case according to the section 6.2. "Removal of Upper Case".**

2. **Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".**

3. **Mark positions of the polarizer (R/G/B).**

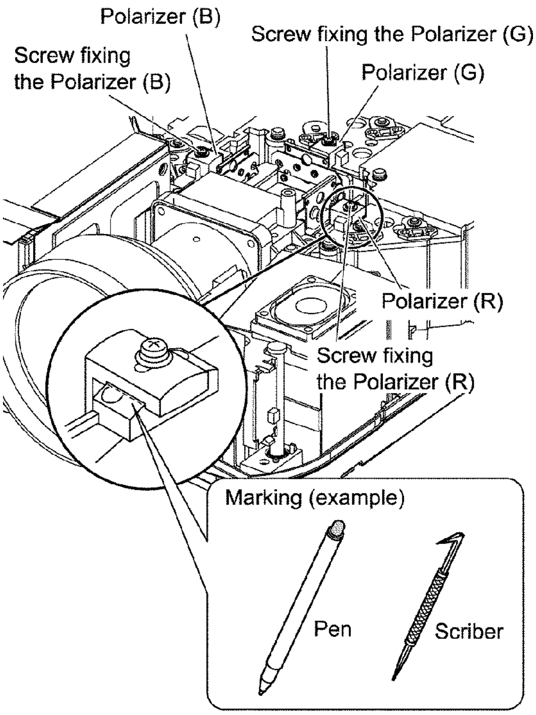
Note:

- **Mark accurately as possible because the marks will be used for resetting the polarizer position.**

4. **Unscrew each screw fixing the polarizer and remove the polarizer.**

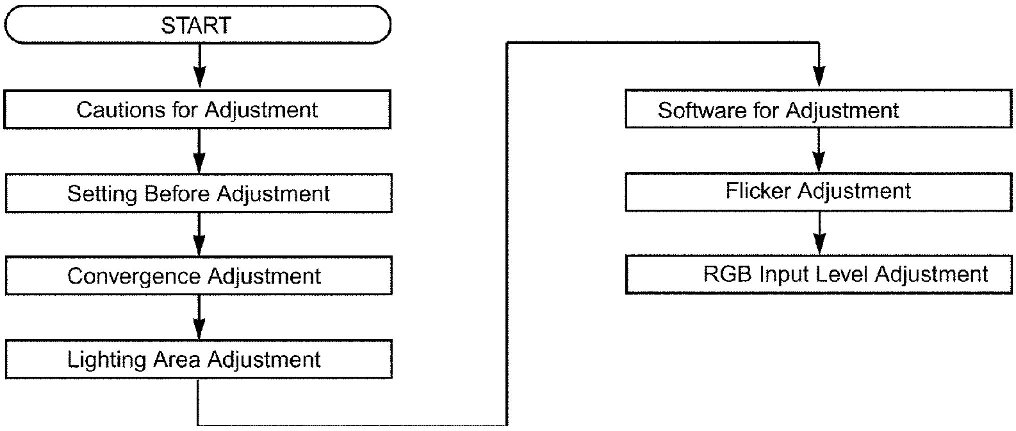
5. **Attach a new polarizer and align it with the mark.**

6. **Tighten the screw fixing the polarizer with care not to move its position.**


Polarizer (B)
Screw fixing the Polarizer (G)
Screw fixing the Polarizer (B)
Polarizer (G)
Polarizer (R)
Screw fixing the Polarizer (R)
Marking (example)
Pen
Scriber

7. Measurement and Adjustments

7.1. Adjustment Procedure Flowchart


START
Cautions for Adjustment
Setting Before Adjustment
Convergence Adjustment
Lighting Area Adjustment
Software for Adjustment
Flicker Adjustment
RGB Input Level Adjustment

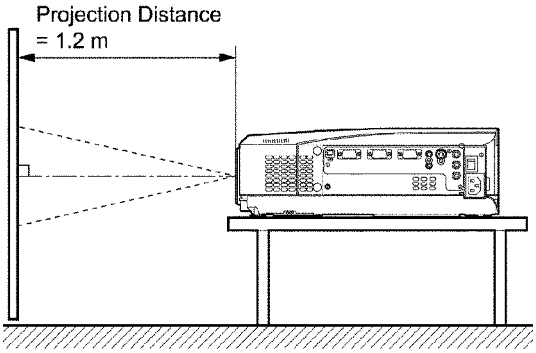
7.2. Cautions for Adjustment

- **Never turn off the MAIN POWER switch until every fan completely stops.**
- **To maintain and ensure safety, always use the designated components for replacement parts.**
- **If removing any clamps, lead wires or connectors, always place them back in their proper locations.**
- **Be careful not to damage the lead wires or components when using**

a soldering iron or similar tool.

7.3. Setting Before Adjustment

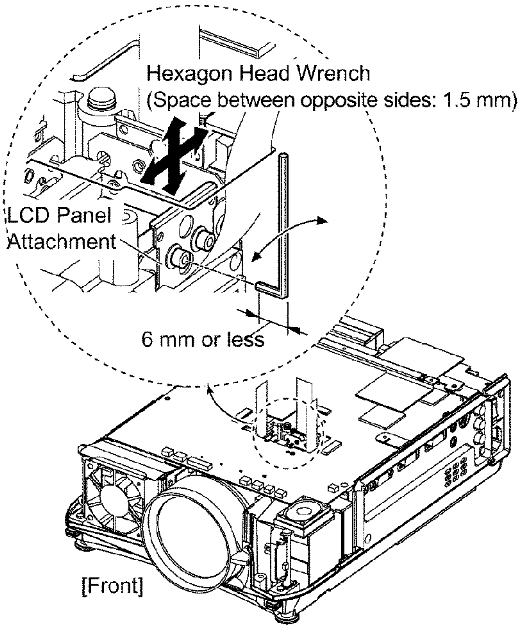
- Set up the projector to obtain the projection distance below.
- Turn the zoom ring of the projector to obtain the largest size of the picture.


Projection Distance
= 1.2 m

7.4. Convergence Adjustment

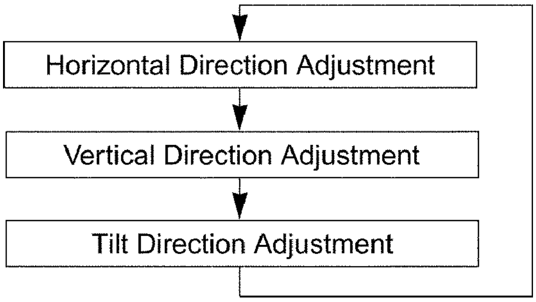
7.4.1. Basic Adjustment Procedure

1. According to the section 6.11. "Replacement of LCD Panel", loosen the 3 screws fixing the LCD panel attachment and screw them temporarily just until the LCD panel can be shifted by your fingers.


Hexagon Head Wrench
(Space between opposite sides: 1.5 mm)
LCD Panel
Attachment
6 mm or less
[Front]

2. Reassemble the projector in the reverse order of disassembling, but leave the upper case as it is removed.

3. Repeat the following steps until the red, green and blue crosshatch patterns merge into a white pattern.


Horizontal Direction Adjustment
Vertical Direction Adjustment
Tilt Direction Adjustment

Note:
Because the projected picture may move opposite in direction to the move of the LCD panel, adjust the convergence observing the real projected picture carefully.

4. Reassemble the projector according to the steps 6 through 9 in the section 6.11. "Replacement of LCD Panel".

7.4.2. Adjustment after Every LCD Panel or LCD Block Replacement

1. Display the green crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (G) position to place the center position of the crosshatch pattern to the center on the screen.
3. Correct the tilt of the green crosshatch pattern.
4. Display the white crosshatch pattern.
5. Adjust the LCD panels (R) and (B) to merge the red and blue patterns with the green.

7.4.3. Adjustment after LCD Panel (G) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (G) to merge the green pattern with the red and blue ones.

7.4.4. Adjustment after LCD Panel (R) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (R) to merge the green pattern with the green and blue ones.

7.4.5. Adjustment after LCD Panel (B) Replacement

1. **Display the white crosshatch pattern and adjust the lens focus.**
2. **Adjust the LCD panel (B) to merge the green pattern with the green and red ones.**

7.5. Lighting Area Adjustment

7.5.1. Tools to be used

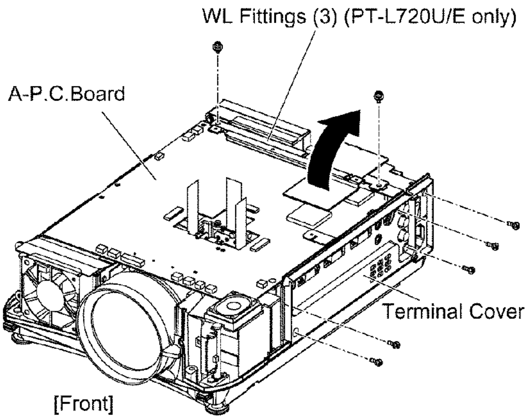
Service Kit (Part No. TZSH07008): This kit is composed of 3 extension flexible cables and 1 connector extension cable.

Note:

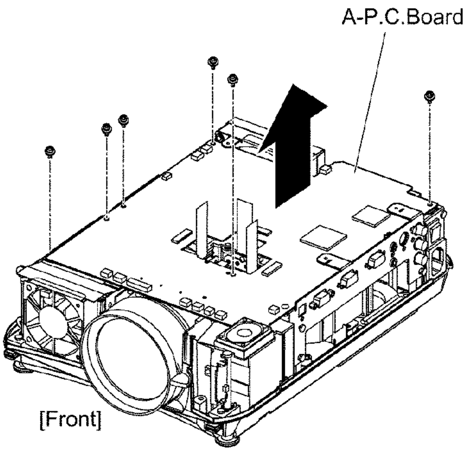
- Consult your dealer or Authorized Service Center for the service kit.

7.5.2. Preparation

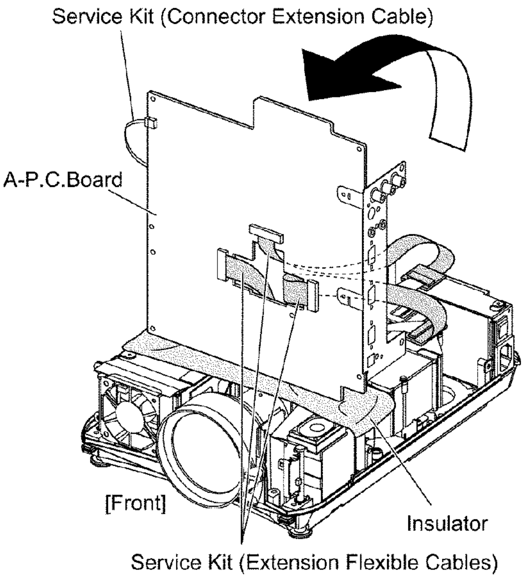
1. **Remove the upper case according to the section 6.2. "Removal of Upper Case".**
2. **For PT-L720U/E, unscrew the 2 screws and remove the WL-fittings (3).**
3. **Unscrew the 5 screws and remove the terminal cover.**



4. **Unscrew the 6 screws.**


A-P.C.Board
[Front]

5. Connect the service kit (extension cables).
   - Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C.Board.
   - Connector of Exhaust Fan - Connector (A19) on A-P.C.Board.
6. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board on the main unit.


Service Kit (Connector Extension Cable)
A-P.C.Board
[Front]
Insulator
Service Kit (Extension Flexible Cables)

Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.

7.5.3. Adjustment Procedure

7.5.3.1. Outline

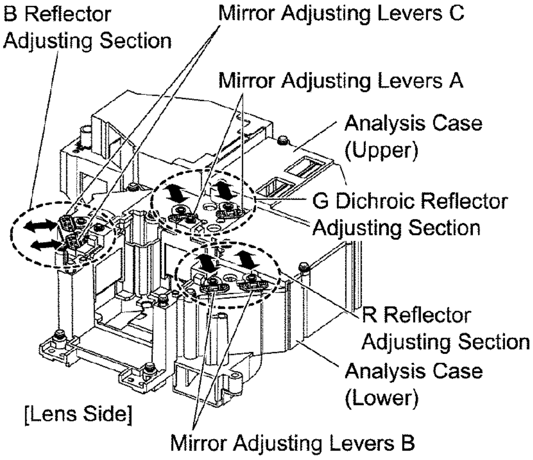
- **Shifting two mirror adjusting levers in the same direction, adjust color unevenness on the screen upper/lower sides.**
- **Shifting two mirror adjusting levers in opposite directions, adjust color unevenness on the screen right/left sides.**

Notes:

- **Before adjustments, remove silicone bond which has locked the mirror adjusting levers.**
- **After adjustments, lock the mirror adjusting levers with silicone bond.**

7.5.3.2. G Dichroic Reflector Adjustment

1. **Turn on the power and display 100 % white pattern on the screen.**
2. **Loosen each screw fixing the 2 mirror adjusting levers A just until the lever can be shifted.**
3. **Adjust the mirror adjusting levers A positions to minimize color unevenness on the screen by shifting the levers in arrow directions.**
4. **Tighten each screw.**


B Reflector Adjusting Section
Mirror Adjusting Levers C
Mirror Adjusting Levers A
Analysis Case (Upper)
G Dichroic Reflector Adjusting Section
R Reflector Adjusting Section
Analysis Case (Lower)
[Lens Side]
Mirror Adjusting Levers B

7.5.3.3. R Reflector Adjustment

1. **Turn on the power and display 100 % white pattern on the screen.**
2. **Loosen each screw fixing the 2 mirror adjusting levers B just until the lever can be shifted.**
3. **Adjust the mirror adjusting levers B positions to minimize color unevenness on the screen by shifting the levers in arrow**

directions.

4. Tighten each screw.

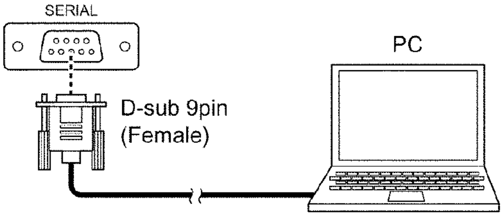
7.5.3.4. B Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen each screw fixing the 2 mirror adjusting levers C just until the lever can be shifted.
3. Adjust the mirror adjusting levers C positions to minimize color unevenness on the screen by shifting the levers in arrow directions.
4. Tighten each screw.

7.6. Software for Adjustment

7.6.1. Outline

- This projector needs computer-aided adjustments.
- After the software adjustments, this projector must be turned off and on again to memorize the settings.
- Connect the cable between the projector and a PC as shown below.
- Updating the software will change the version number.



7.6.2. Operating Procedure

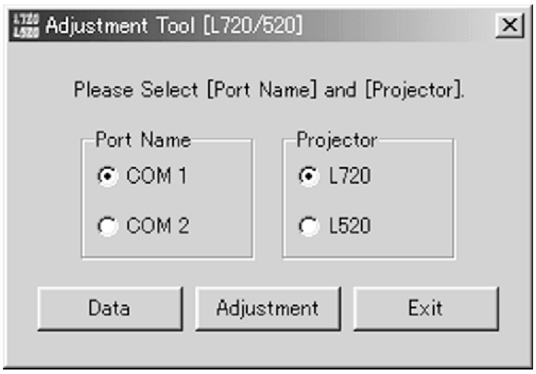
1. Run software program by the keyboard entry.

Note:

- Use the software program as below.
  Adjustment Tool [L720/520]

2. The first menu is [Port Name] and [Projector] selection menu.
3. Adjust the projector by selecting the necessary item from the menu in each stage.

7.6.3. Port Name and Projector Selection Menu



Adjustment Tool [L720/520]

Please Select [Port Name] and [Projector].

Port Name

● COM 1

○ COM 2

Projector

● L720

○ L520

Select the applying item with the radio button and click "Data" or "Adjustment".

7.6.3.1. Explanation of Buttons

COM 1:
Sets the port name of PC which connects with the projector is in COM1.

COM 2:
Sets the port name of PC which connects with the projector is in COM2.

L720:
Select when the pertinent model name is PT-L720* .

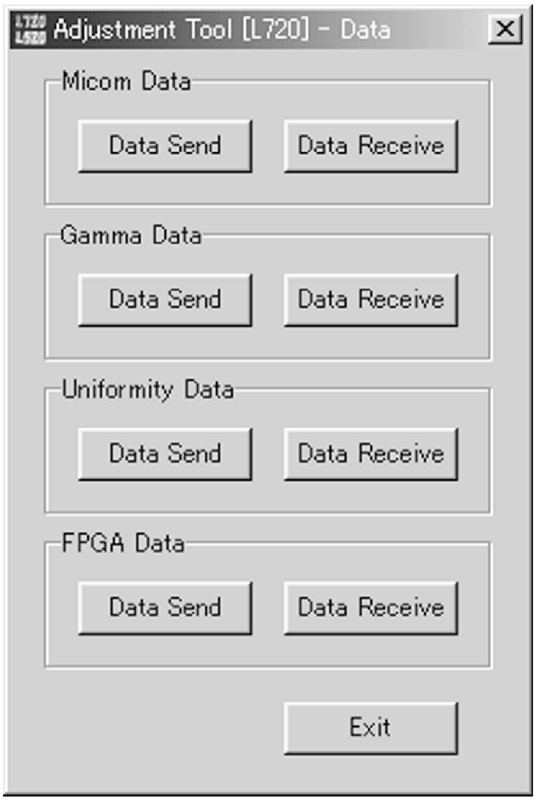
L520:
Select when the pertinent model name is PT-L520* .

Data:
Displays the data send/receive menu.

Adjustment:
Displays the adjustment menu.

Exit:
Exits this application.

7.6.4. Data Send/Receive Menu


Adjustment Tool [L720] - Data
Micom Data
Data Send
Data Receive
Gamma Data
Data Send
Data Receive
Uniformity Data
Data Send
Data Receive
FPGA Data
Data Send
Data Receive
Exit

7.6.4.1. Explanation of Buttons

Micom Data Send:
Reads the microcomputer data from the file and sends it to the projector.

Micom Data Receive:
Receives the microcomputer data from the projector and writes it in the file.

Gamma Data Send:
Reads the gamma data from the file and sends it to the projector.

Gamma Data Receive:
Receives the gamma data from the projector and writes it in the file.

Uniformity Data Send:
Reads the color unevenness correction data from the file and sends it to the projector.

Uniformity Data Receive:
Receives the color unevenness correction data from the projector and writes it in the file.

FPGA Data Send:
Reads the FPGA data from the file and sends it to the projector.

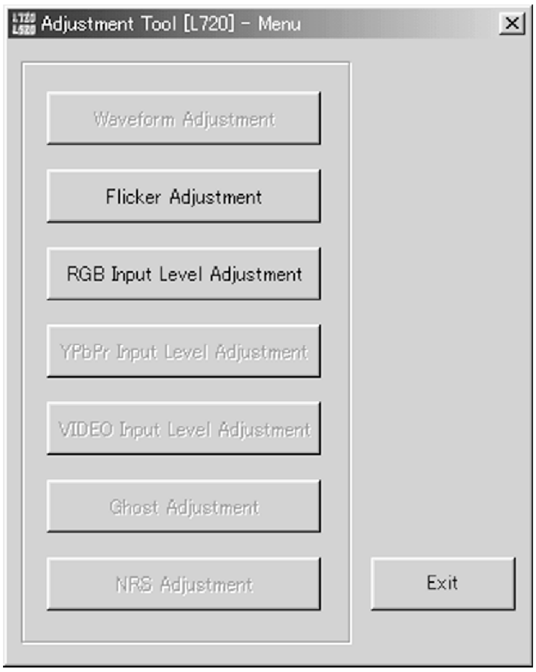
FPGA Data Receive:
Receives the FPGA data from the projector and writes it in the file.

Exit:
Exits this application.

7.6.4.2. Receiving and sending of the data

Click a target button and specify a file name.

7.6.5. Adjustment Menu


Adjustment Tool [L720] - Menu
Waveform Adjustment
Flicker Adjustment
RGB Input Level Adjustment
YPbPr Input Level Adjustment
VIDEO Input Level Adjustment
Ghost Adjustment
NRS Adjustment
Exit

7.6.5.1. Explanation of Buttons

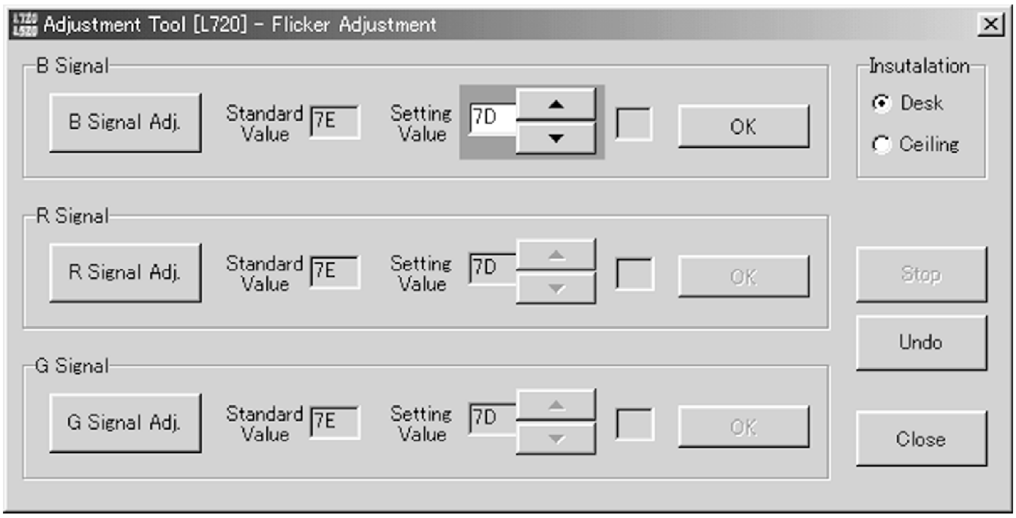
Flicker Adjustment:
Displays the flicker adjustment menu.

RGB Input Level Adjustment:
Displays the RGB input level adjustment menu.

Exit:
Exits this application.

7.7. Flicker Adjustment

7.7.1. Adjustment Menu



Adjustment Tool [L720] - Flicker Adjustment

B Signal: Standard Value 7E, Setting Value 7D

R Signal: Standard Value 7E, Setting Value 7D

G Signal: Standard Value 7E, Setting Value 7D

Insutalation: ● Desk ○ Ceiling

7.7.2. Explanation of Buttons

Desk:
Sets the installation mode to the desk setting and receive the current data.

Ceiling:
Sets the installation mode to the ceiling setting and receive the current data.

B Signal Adj.:

Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to becomes active.

R Signal Adj.:

Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to becomes active.

G Signal Adj.:

Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to becomes active.

▲ or ▼
Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the

same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed ina box and using the TAB or SPACE key allows the move of the box.

OK:
Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER keychanges the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8or 2 key, its color returns to black.

Stop:
Discontinues the communication. (This button is usually set for its inactive mode.)

Undo:
Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:
Closes this menu.

7.7.3. Equipment to be used

PC, Software for Adjustment

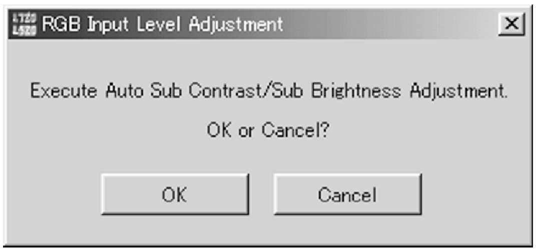
7.7.4. Adjustment Procedure

1. Display the flicker adjustment menu.
2. Set the installation mode to the desk setting.
3. Click "B Signal Adj." and the blue flicker adjustment pattern will be displayed.
4. Minimize the flicker while observing the projected pattern.
5. Click "R Signal Adj." and the red flicker adjustment pattern will be displayed.
6. Minimize the flicker while observing the projected pattern.
7. Click "G Signal Adj." and the green flicker adjustment pattern will be displayed.
8. Minimize the flicker while observing the projected pattern.

9. Change the installation mode to the ceiling setting and follow steps 3 to 8 inclusive.

7.8. RGB Input Level Adjustment

7.8.1. Adjustment Menu



Execute Auto Sub Contrast/Sub Brightness Adjustment.

OK or Cancel?

7.8.2. Explanation of Buttons

OK:
Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:
Cancels this menu.

7.8.3. Equipment to be used

PC, RGB Signal Generator, Software for Adjustment

7.8.4. Adjustment Procedure

1. Display the RGB input level adjustment menu.

2. Input a window pattern signal to RGB1 IN connector.

Note:

- Use approx. 15 % window pattern as follows.
  Black background (screen width) : White window width = 2 : 1
  Black background (screen height) : White window height = 3 : 1
- PT-L720* must use the window pattern of XGA (1 024 ×768).
- PT-L520* must use the window pattern of S-VGA (800 ×600).

3. Click the OK button.

8. Troubleshooting

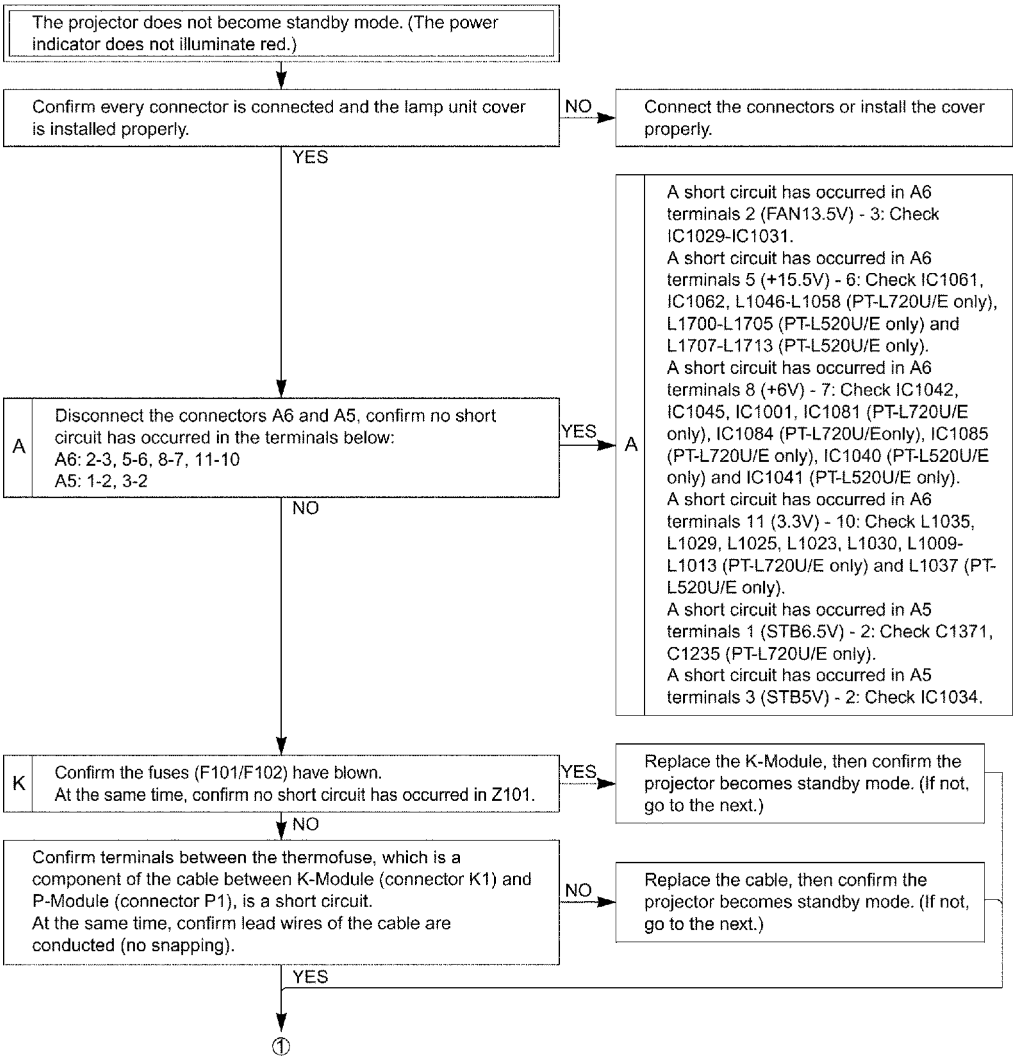
- The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

Note: A

The letter of the alphabet indicates the P.C.Board or Module name.

(Example) A: A-P.C.Board, K: K-Module

- If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 7.6. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1011 and IC1017 from the old P.C.Board and install them on the new one.
- If replacing A-P.C.Board (assembly), adjust the Input Level according to the chapter 7.8. "RGB Input Level Adjustments".



The projector does not become standby mode. (The power indicator does not illuminate red.)

Confirm every connector is connected and the lamp unit cover is installed properly.

Connect the connectors or install the cover properly.

Disconnect the connectors A6 and A5, confirm no short circuit has occurred in the terminals below:
A6: 2-3, 5-6, 8-7, 11-10
A5: 1-2, 3-2

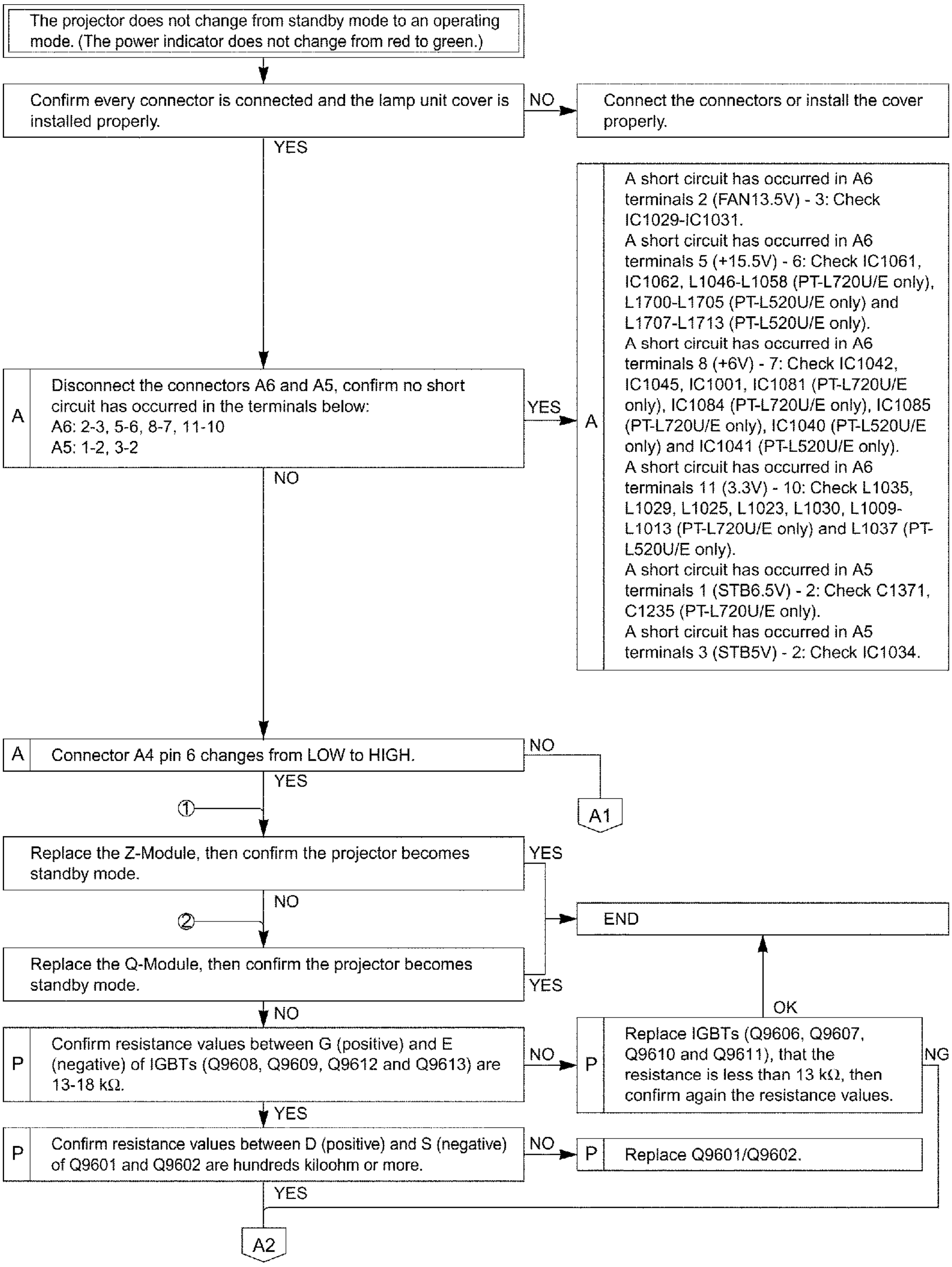
A short circuit has occurred in A6 terminals 2 (FAN13.5V) - 3: Check IC1029-IC1031.
A short circuit has occurred in A6 terminals 5 (+15.5V) - 6: Check IC1061, IC1062, L1046-L1058 (PT-L720U/E only), L1700-L1705 (PT-L520U/E only) and L1707-L1713 (PT-L520U/E only).
A short circuit has occurred in A6 terminals 8 (+6V) - 7: Check IC1042, IC1045, IC1001, IC1081 (PT-L720U/E only), IC1084 (PT-L720U/Eonly), IC1085 (PT-L720U/E only), IC1040 (PT-L520U/E only) and IC1041 (PT-L520U/E only).
A short circuit has occurred in A6 terminals 11 (3.3V) - 10: Check L1035, L1029, L1025, L1023, L1030, L1009-L1013 (PT-L720U/E only) and L1037 (PT-L520U/E only).
A short circuit has occurred in A5 terminals 1 (STB6.5V) - 2: Check C1371, C1235 (PT-L720U/E only).
A short circuit has occurred in A5 terminals 3 (STB5V) - 2: Check IC1034.

Confirm the fuses (F101/F102) have blown.
At the same time, confirm no short circuit has occurred in Z101.

Replace the K-Module, then confirm the projector becomes standby mode. (If not, go to the next.)

Confirm terminals between the thermofuse, which is a component of the cable between K-Module (connector K1) and P-Module (connector P1), is a short circuit.
At the same time, confirm lead wires of the cable are conducted (no snapping).

Replace the cable, then confirm the projector becomes standby mode. (If not, go to the next.)



The projector does not change from standby mode to an operating mode. (The power indicator does not change from red to green.)

Confirm every connector is connected and the lamp unit cover is installed properly.

Connect the connectors or install the cover properly.

A Disconnect the connectors A6 and A5, confirm no short circuit has occurred in the terminals below:
A6: 2-3, 5-6, 8-7, 11-10
A5: 1-2, 3-2

A A short circuit has occurred in A6 terminals 2 (FAN13.5V) - 3: Check IC1029-IC1031.
A short circuit has occurred in A6 terminals 5 (+15.5V) - 6: Check IC1061, IC1062, L1046-L1058 (PT-L720U/E only), L1700-L1705 (PT-L520U/E only) and L1707-L1713 (PT-L520U/E only).
A short circuit has occurred in A6 terminals 8 (+6V) - 7: Check IC1042, IC1045, IC1001, IC1081 (PT-L720U/E only), IC1084 (PT-L720U/E only), IC1085 (PT-L720U/E only), IC1040 (PT-L520U/E only) and IC1041 (PT-L520U/E only).
A short circuit has occurred in A6 terminals 11 (3.3V) - 10: Check L1035, L1029, L1025, L1023, L1030, L1009-L1013 (PT-L720U/E only) and L1037 (PT-L520U/E only).
A short circuit has occurred in A5 terminals 1 (STB6.5V) - 2: Check C1371, C1235 (PT-L720U/E only).
A short circuit has occurred in A5 terminals 3 (STB5V) - 2: Check IC1034.

A Connector A4 pin 6 changes from LOW to HIGH.

Replace the Z-Module, then confirm the projector becomes standby mode.

Replace the Q-Module, then confirm the projector becomes standby mode.

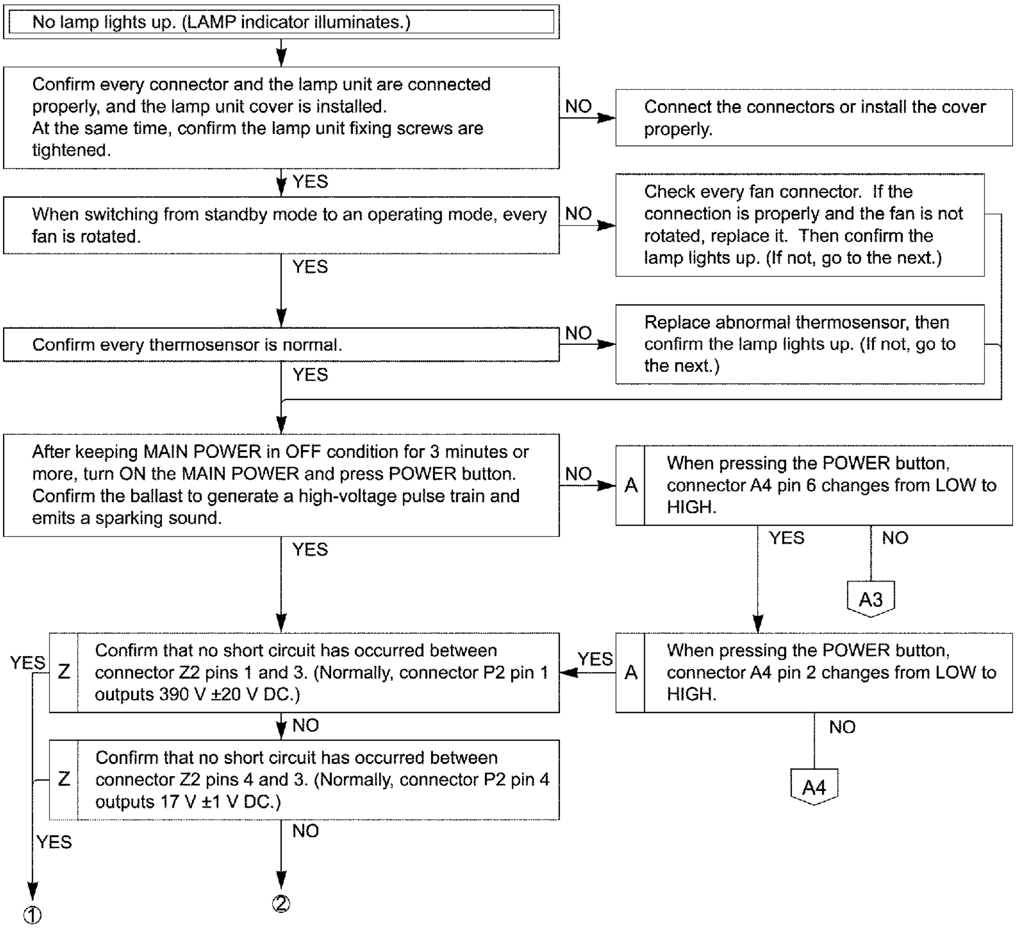
END

P Confirm resistance values between G (positive) and E (negative) of IGBTs (Q9608, Q9609, Q9612 and Q9613) are 13-18 kΩ.

P Replace IGBTs (Q9606, Q9607, Q9610 and Q9611), that the resistance is less than 13 kΩ, then confirm again the resistance values.

P Confirm resistance values between D (positive) and S (negative) of Q9601 and Q9602 are hundreds kiloohm or more.

P Replace Q9601/Q9602.



No lamp lights up. (LAMP indicator illuminates.)

Confirm every connector and the lamp unit are connected properly, and the lamp unit cover is installed.
At the same time, confirm the lamp unit fixing screws are tightened.

Connect the connectors or install the cover properly.

When switching from standby mode to an operating mode, every fan is rotated.

Check every fan connector. If the connection is properly and the fan is not rotated, replace it. Then confirm the lamp lights up. (If not, go to the next.)

Confirm every thermosensor is normal.

Replace abnormal thermosensor, then confirm the lamp lights up. (If not, go to the next.)

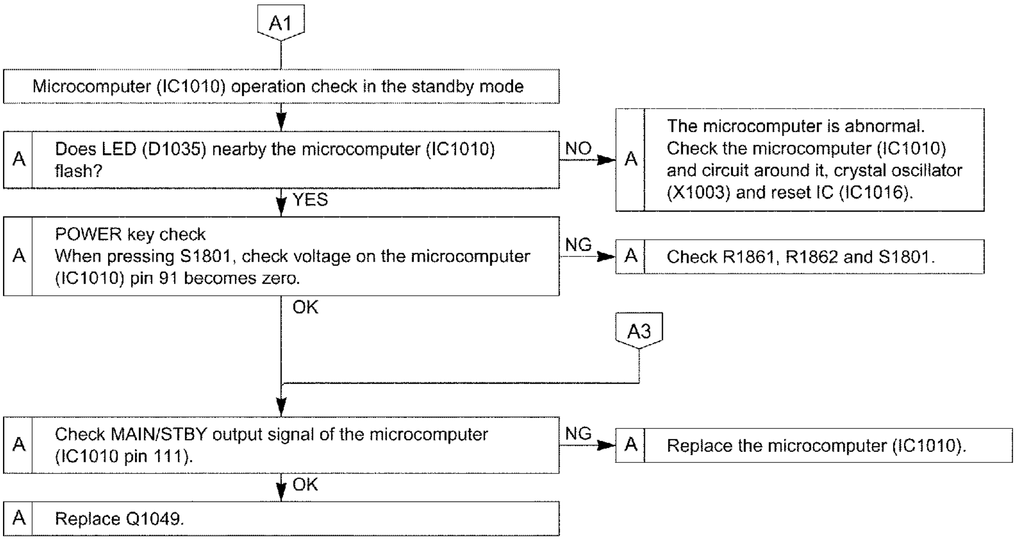
After keeping MAIN POWER in OFF condition for 3 minutes or more, turn ON the MAIN POWER and press POWER button. Confirm the ballast to generate a high-voltage pulse train and emits a sparking sound.

A When pressing the POWER button, connector A4 pin 6 changes from LOW to HIGH.

Z Confirm that no short circuit has occurred between connector Z2 pins 1 and 3. (Normally, connector P2 pin 1 outputs 390 V ±20 V DC.)

A When pressing the POWER button, connector A4 pin 2 changes from LOW to HIGH.

Z Confirm that no short circuit has occurred between connector Z2 pins 4 and 3. (Normally, connector P2 pin 4 outputs 17 V ±1 V DC.)



A1

Microcomputer (IC1010) operation check in the standby mode

A | Does LED (D1035) nearby the microcomputer (IC1010) flash?

NO → A | The microcomputer is abnormal. Check the microcomputer (IC1010) and circuit around it, crystal oscillator (X1003) and reset IC (IC1016).

YES

A | POWER key check
When pressing S1801, check voltage on the microcomputer (IC1010) pin 91 becomes zero.

NG → A | Check R1861, R1862 and S1801.

OK

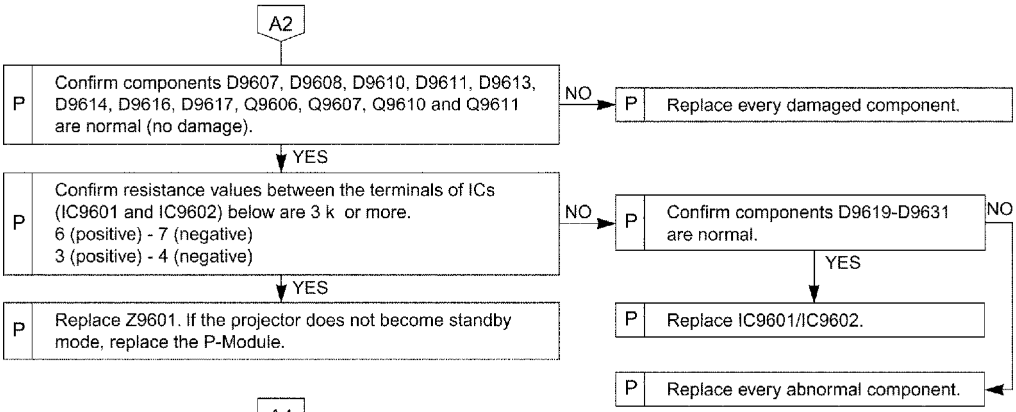
A3

A | Check MAIN/STBY output signal of the microcomputer (IC1010 pin 111).

NG → A | Replace the microcomputer (IC1010).

OK

A | Replace Q1049.



A2

P | Confirm components D9607, D9608, D9610, D9611, D9613, D9614, D9616, D9617, Q9606, Q9607, Q9610 and Q9611 are normal (no damage).

NO → P | Replace every damaged component.

YES

P | Confirm resistance values between the terminals of ICs (IC9601 and IC9602) below are 3 k or more.
6 (positive) - 7 (negative)
3 (positive) - 4 (negative)

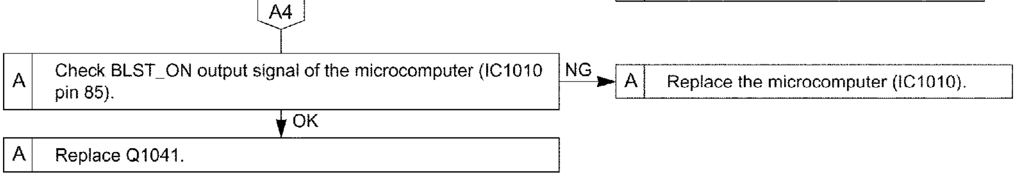
NO → P | Confirm components D9619-D9631 are normal.

YES → P | Replace IC9601/IC9602.

NO → P | Replace every abnormal component.

YES

P | Replace Z9601. If the projector does not become standby mode, replace the P-Module.



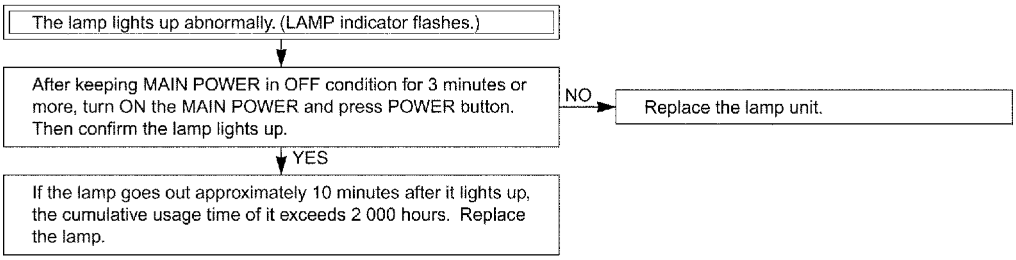
A4

A | Check BLST_ON output signal of the microcomputer (IC1010 pin 85).

NG → A | Replace the microcomputer (IC1010).

OK

A | Replace Q1041.



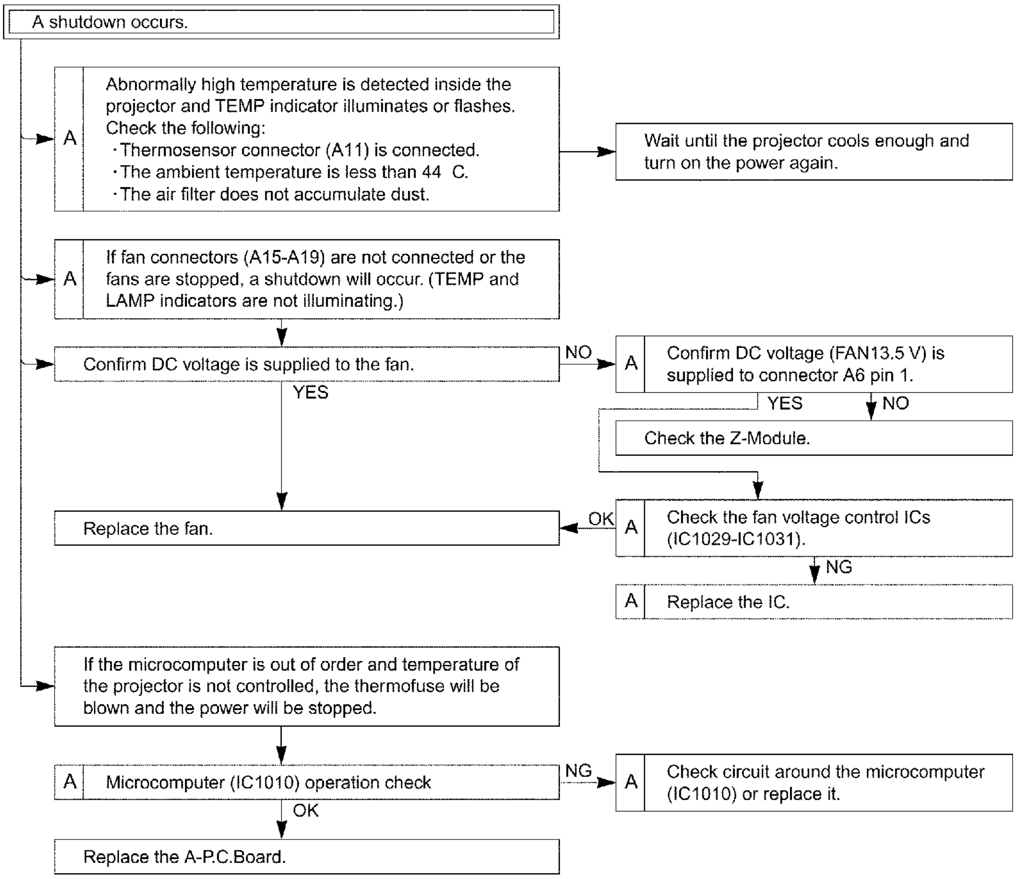
The lamp lights up abnormally. (LAMP indicator flashes.)

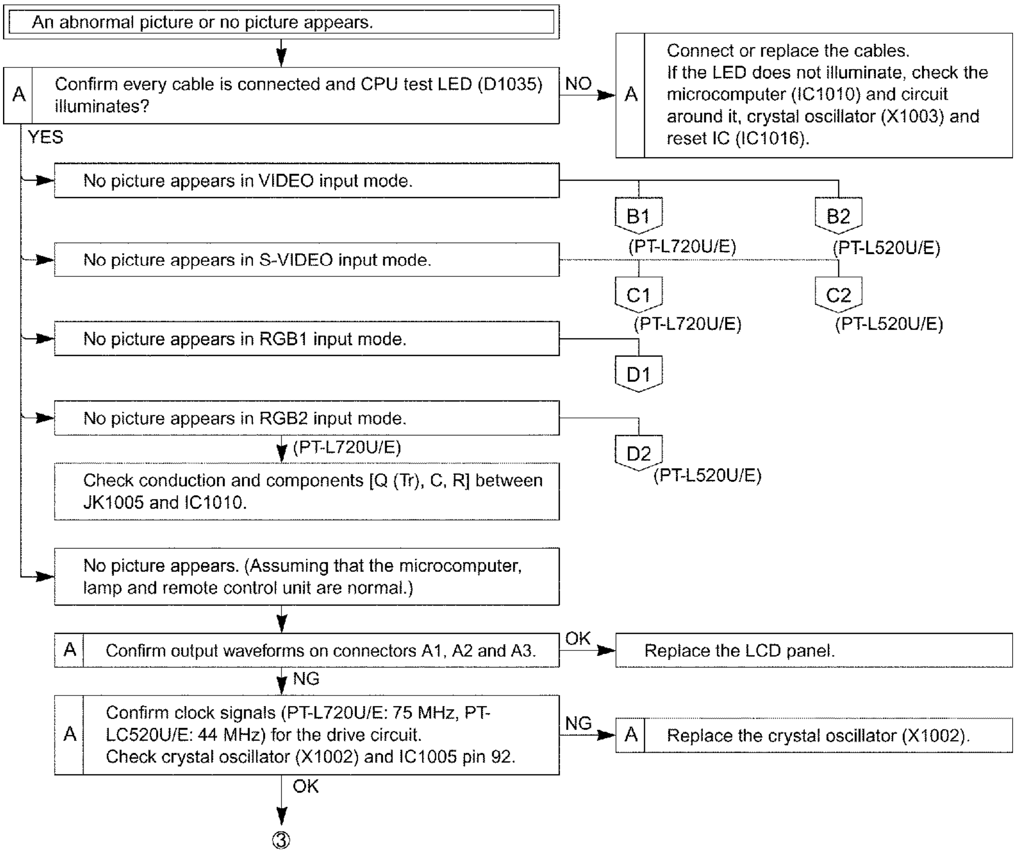
After keeping MAIN POWER in OFF condition for 3 minutes or more, turn ON the MAIN POWER and press POWER button. Then confirm the lamp lights up.

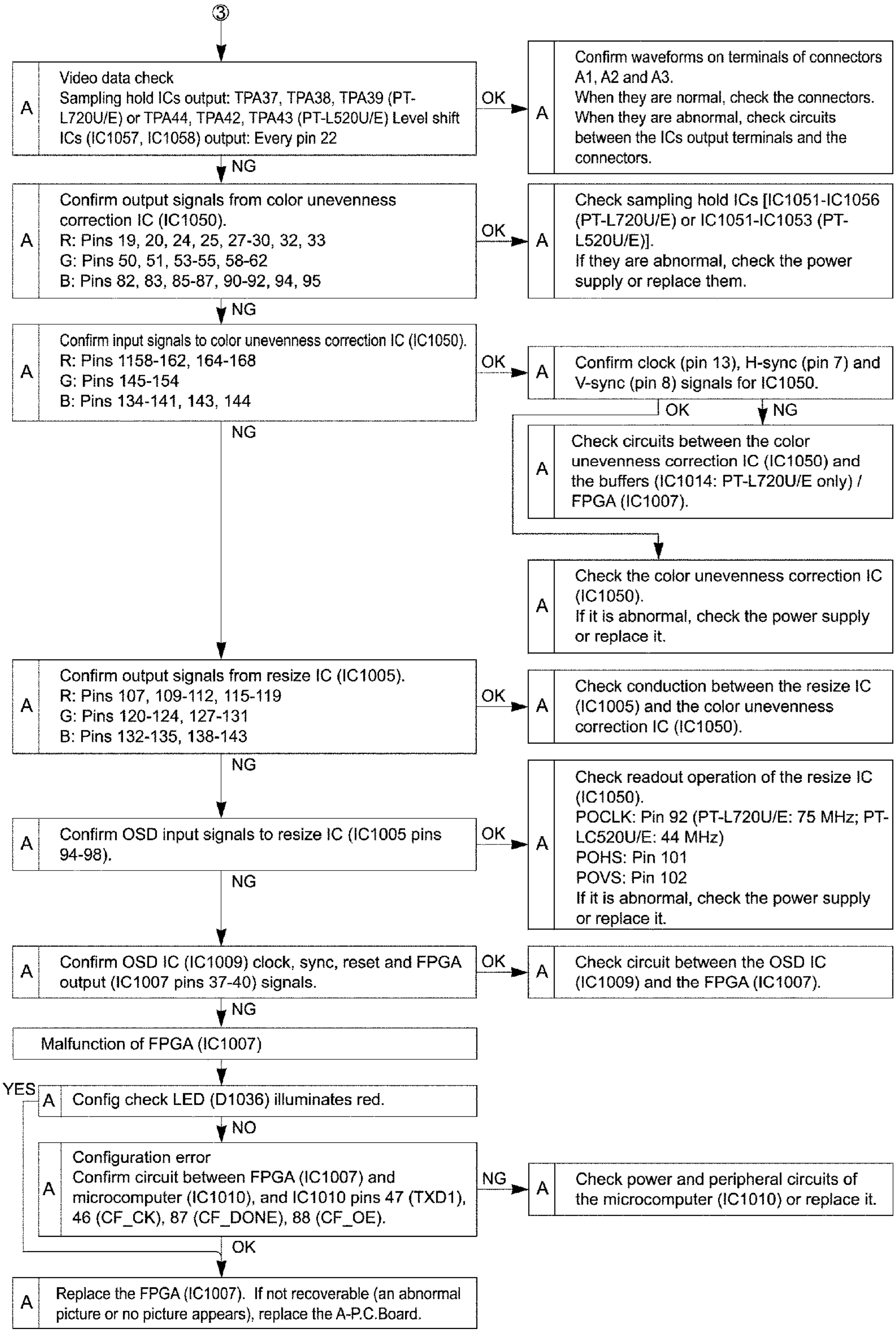
NO → Replace the lamp unit.

YES

If the lamp goes out approximately 10 minutes after it lights up, the cumulative usage time of it exceeds 2 000 hours. Replace the lamp.


A shutdown occurs.
A
Abnormally high temperature is detected inside the projector and TEMP indicator illuminates or flashes.
Check the following:
·Thermosensor connector (A11) is connected.
·The ambient temperature is less than 44 C.
·The air filter does not accumulate dust.
Wait until the projector cools enough and turn on the power again.
A
If fan connectors (A15-A19) are not connected or the fans are stopped, a shutdown will occur. (TEMP and LAMP indicators are not illuminating.)
Confirm DC voltage is supplied to the fan.
NO
A
Confirm DC voltage (FAN13.5 V) is supplied to connector A6 pin 1.
YES
YES
NO
Check the Z-Module.
Replace the fan.
OK
A
Check the fan voltage control ICs (IC1029-IC1031).
NG
A
Replace the IC.
If the microcomputer is out of order and temperature of the projector is not controlled, the thermofuse will be blown and the power will be stopped.
A
Microcomputer (IC1010) operation check
NG
A
Check circuit around the microcomputer (IC1010) or replace it.
OK
Replace the A-P.C.Board.


An abnormal picture or no picture appears.
A
Confirm every cable is connected and CPU test LED (D1035) illuminates?
NO
A
Connect or replace the cables.
If the LED does not illuminate, check the microcomputer (IC1010) and circuit around it, crystal oscillator (X1003) and reset IC (IC1016).
YES
No picture appears in VIDEO input mode.
B1
(PT-L720U/E)
B2
(PT-L520U/E)
No picture appears in S-VIDEO input mode.
C1
(PT-L720U/E)
C2
(PT-L520U/E)
No picture appears in RGB1 input mode.
D1
No picture appears in RGB2 input mode.
(PT-L720U/E)
D2
(PT-L520U/E)
Check conduction and components [Q (Tr), C, R] between JK1005 and IC1010.
No picture appears. (Assuming that the microcomputer, lamp and remote control unit are normal.)
A
Confirm output waveforms on connectors A1, A2 and A3.
OK
Replace the LCD panel.
NG
A
Confirm clock signals (PT-L720U/E: 75 MHz, PT-LC520U/E: 44 MHz) for the drive circuit.
Check crystal oscillator (X1002) and IC1005 pin 92.
NG
A
Replace the crystal oscillator (X1002).
OK
③



A Video data check
Sampling hold ICs output: TPA37, TPA38, TPA39 (PT-L720U/E) or TPA44, TPA42, TPA43 (PT-L520U/E) Level shift ICs (IC1057, IC1058) output: Every pin 22

A Confirm waveforms on terminals of connectors A1, A2 and A3.
When they are normal, check the connectors.
When they are abnormal, check circuits between the ICs output terminals and the connectors.

A Confirm output signals from color unevenness correction IC (IC1050).
R: Pins 19, 20, 24, 25, 27-30, 32, 33
G: Pins 50, 51, 53-55, 58-62
B: Pins 82, 83, 85-87, 90-92, 94, 95

A Check sampling hold ICs [IC1051-IC1056 (PT-L720U/E) or IC1051-IC1053 (PT-L520U/E)].
If they are abnormal, check the power supply or replace them.

A Confirm input signals to color unevenness correction IC (IC1050).
R: Pins 1158-162, 164-168
G: Pins 145-154
B: Pins 134-141, 143, 144

A Confirm clock (pin 13), H-sync (pin 7) and V-sync (pin 8) signals for IC1050.

A Check circuits between the color unevenness correction IC (IC1050) and the buffers (IC1014: PT-L720U/E only) / FPGA (IC1007).

A Check the color unevenness correction IC (IC1050).
If it is abnormal, check the power supply or replace it.

A Confirm output signals from resize IC (IC1005).
R: Pins 107, 109-112, 115-119
G: Pins 120-124, 127-131
B: Pins 132-135, 138-143

A Check conduction between the resize IC (IC1005) and the color unevenness correction IC (IC1050).

A Confirm OSD input signals to resize IC (IC1005 pins 94-98).

A Check readout operation of the resize IC (IC1050).
POCLK: Pin 92 (PT-L720U/E: 75 MHz; PT-LC520U/E: 44 MHz)
POHS: Pin 101
POVS: Pin 102
If it is abnormal, check the power supply or replace it.

A Confirm OSD IC (IC1009) clock, sync, reset and FPGA output (IC1007 pins 37-40) signals.

A Check circuit between the OSD IC (IC1009) and the FPGA (IC1007).

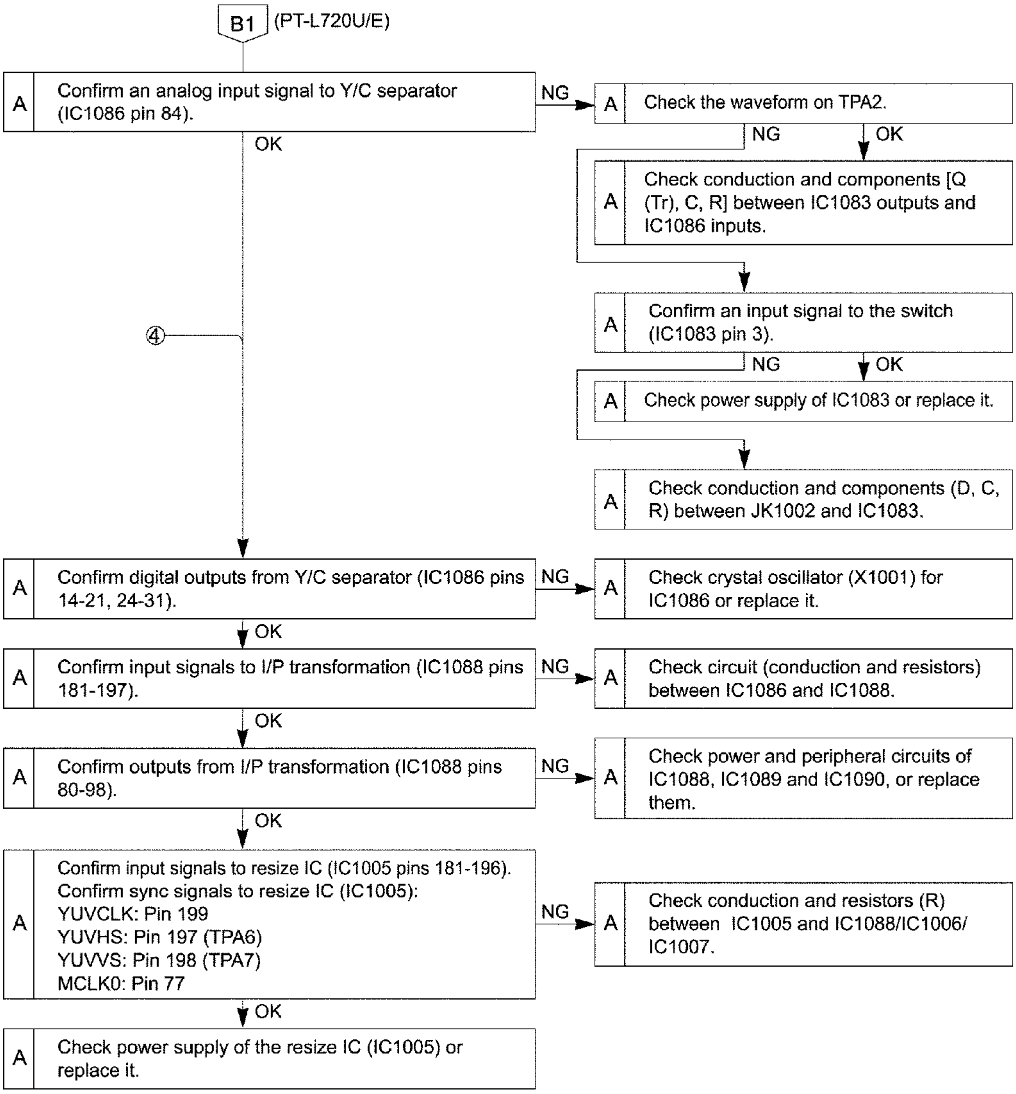
Malfunction of FPGA (IC1007)

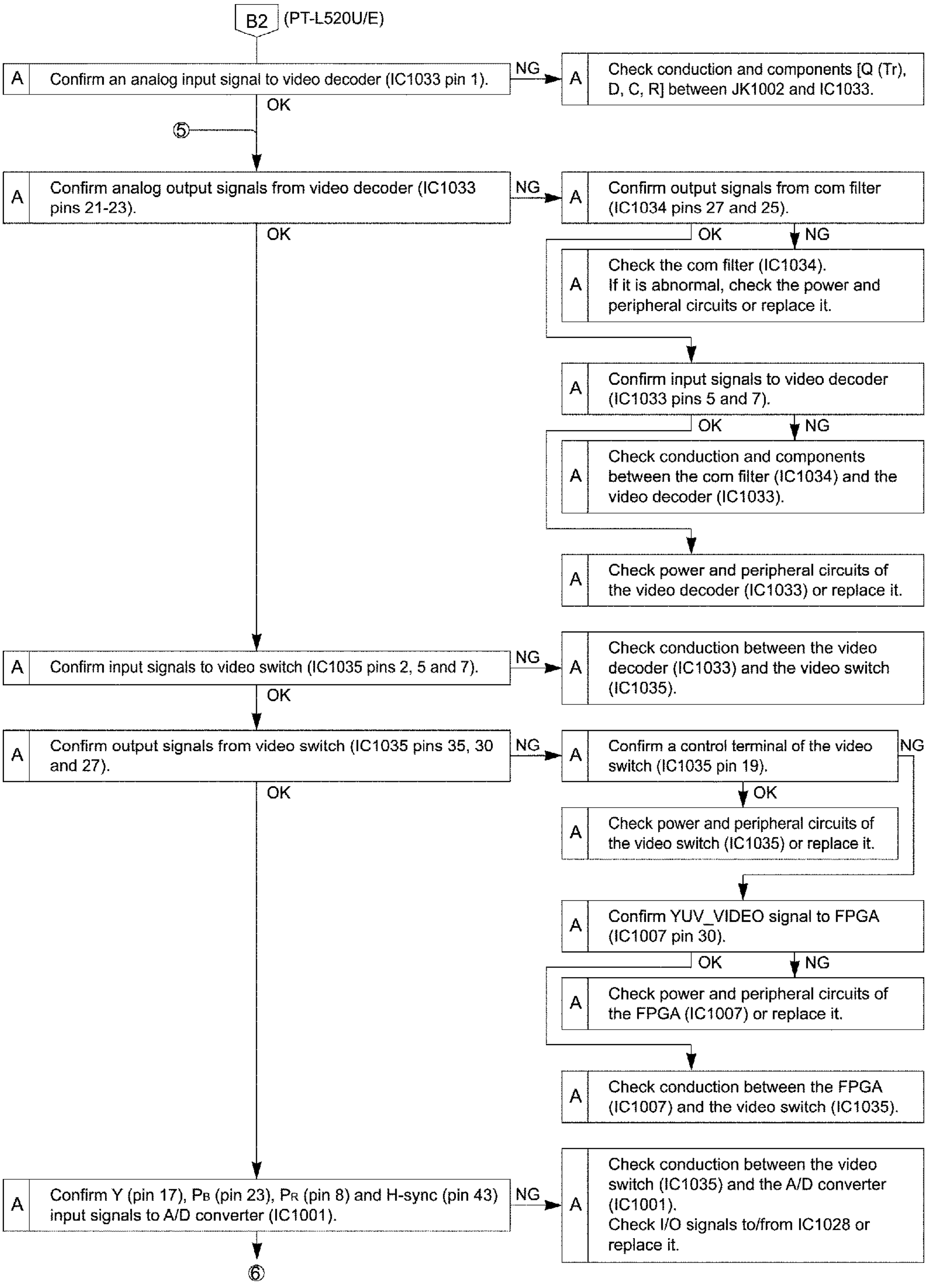
A Config check LED (D1036) illuminates red.

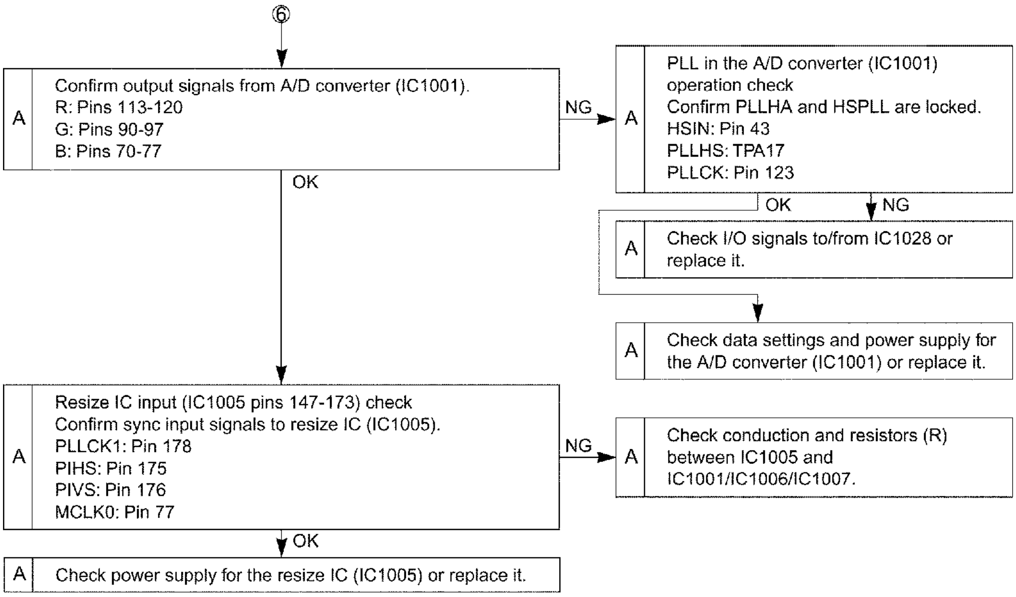
A Configuration error
Confirm circuit between FPGA (IC1007) and microcomputer (IC1010), and IC1010 pins 47 (TXD1), 46 (CF_CK), 87 (CF_DONE), 88 (CF_OE).

A Check power and peripheral circuits of the microcomputer (IC1010) or replace it.

A Replace the FPGA (IC1007). If not recoverable (an abnormal picture or no picture appears), replace the A-P.C.Board.


B1
(PT-L720U/E)
A
Confirm an analog input signal to Y/C separator (IC1086 pin 84).
NG
A
Check the waveform on TPA2.
NG
OK
A
Check conduction and components [Q (Tr), C, R] between IC1083 outputs and IC1086 inputs.
A
Confirm an input signal to the switch (IC1083 pin 3).
NG
OK
A
Check power supply of IC1083 or replace it.
A
Check conduction and components (D, C, R) between JK1002 and IC1083.
OK
④
A
Confirm digital outputs from Y/C separator (IC1086 pins 14-21, 24-31).
NG
A
Check crystal oscillator (X1001) for IC1086 or replace it.
OK
A
Confirm input signals to I/P transformation (IC1088 pins 181-197).
NG
A
Check circuit (conduction and resistors) between IC1086 and IC1088.
OK
A
Confirm outputs from I/P transformation (IC1088 pins 80-98).
NG
A
Check power and peripheral circuits of IC1088, IC1089 and IC1090, or replace them.
OK
A
Confirm input signals to resize IC (IC1005 pins 181-196).
Confirm sync signals to resize IC (IC1005):
YUVCLK: Pin 199
YUVHS: Pin 197 (TPA6)
YUVVS: Pin 198 (TPA7)
MCLKO: Pin 77
NG
A
Check conduction and resistors (R) between IC1005 and IC1088/IC1006/IC1007.
OK
A
Check power supply of the resize IC (IC1005) or replace it.


B2 (PT-L520U/E)
A Confirm an analog input signal to video decoder (IC1033 pin 1).
NG
A Check conduction and components [Q (Tr), D, C, R] between JK1002 and IC1033.
OK
⑤
A Confirm analog output signals from video decoder (IC1033 pins 21-23).
NG
A Confirm output signals from com filter (IC1034 pins 27 and 25).
OK
NG
A Check the com filter (IC1034). If it is abnormal, check the power and peripheral circuits or replace it.
A Confirm input signals to video decoder (IC1033 pins 5 and 7).
OK
NG
A Check conduction and components between the com filter (IC1034) and the video decoder (IC1033).
A Check power and peripheral circuits of the video decoder (IC1033) or replace it.
OK
A Confirm input signals to video switch (IC1035 pins 2, 5 and 7).
NG
A Check conduction between the video decoder (IC1033) and the video switch (IC1035).
OK
A Confirm output signals from video switch (IC1035 pins 35, 30 and 27).
NG
A Confirm a control terminal of the video switch (IC1035 pin 19).
NG
OK
A Check power and peripheral circuits of the video switch (IC1035) or replace it.
A Confirm YUV_VIDEO signal to FPGA (IC1007 pin 30).
OK
NG
A Check power and peripheral circuits of the FPGA (IC1007) or replace it.
A Check conduction between the FPGA (IC1007) and the video switch (IC1035).
OK
A Confirm Y (pin 17), PB (pin 23), PR (pin 8) and H-sync (pin 43) input signals to A/D converter (IC1001).
NG
A Check conduction between the video switch (IC1035) and the A/D converter (IC1001). Check I/O signals to/from IC1028 or replace it.
⑥



A Confirm output signals from A/D converter (IC1001).
R: Pins 113-120
G: Pins 90-97
B: Pins 70-77

A PLL in the A/D converter (IC1001) operation check
Confirm PLLHA and HSPLL are locked.
HSIN: Pin 43
PLLHS: TPA17
PLLCK: Pin 123

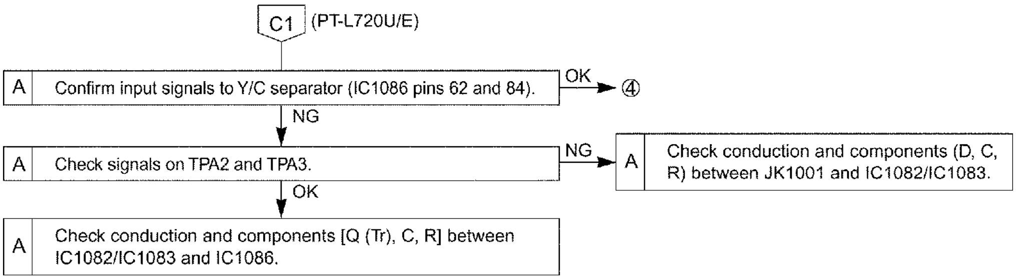
A Check I/O signals to/from IC1028 or replace it.

A Check data settings and power supply for the A/D converter (IC1001) or replace it.

A Resize IC input (IC1005 pins 147-173) check
Confirm sync input signals to resize IC (IC1005).
PLLCK1: Pin 178
PIHS: Pin 175
PIVS: Pin 176
MCLK0: Pin 77

A Check conduction and resistors (R) between IC1005 and IC1001/IC1006/IC1007.

A Check power supply for the resize IC (IC1005) or replace it.



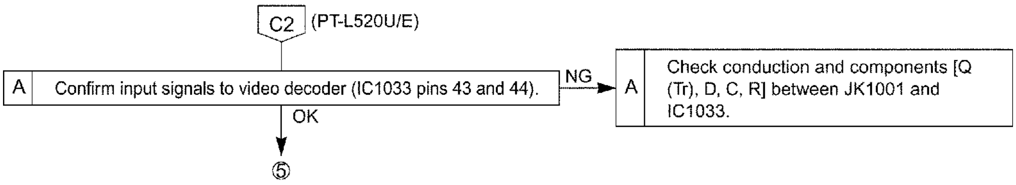
(PT-L720U/E)

A Confirm input signals to Y/C separator (IC1086 pins 62 and 84).

A Check signals on TPA2 and TPA3.

A Check conduction and components (D, C, R) between JK1001 and IC1082/IC1083.

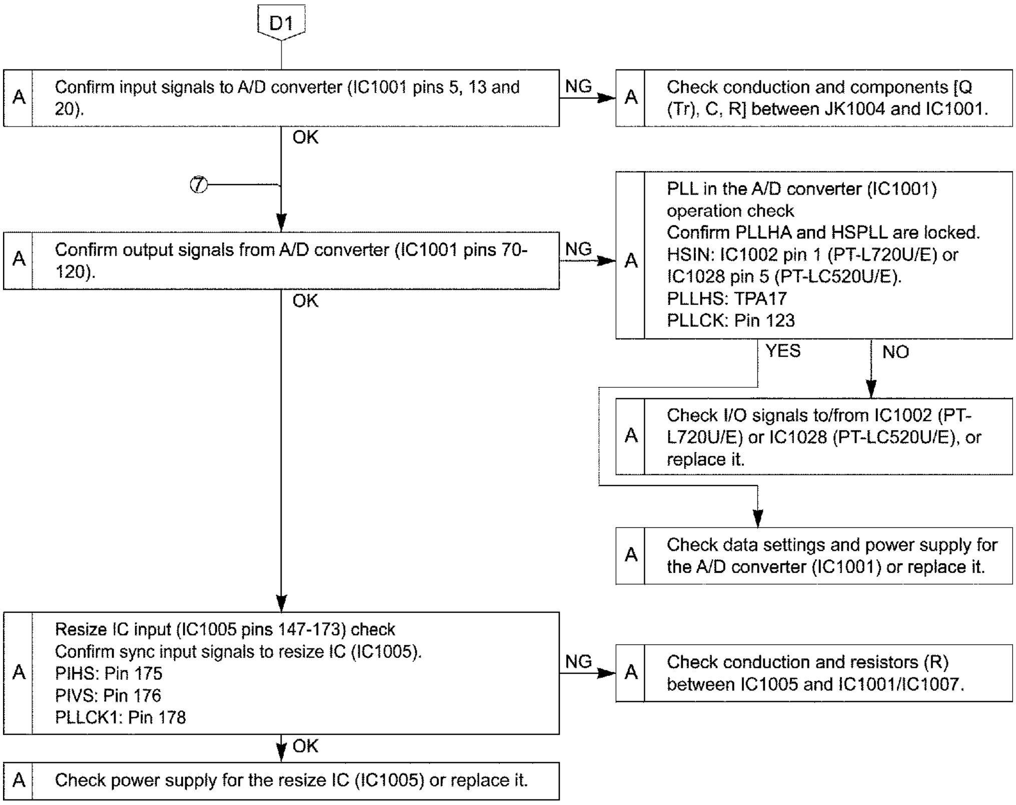
A Check conduction and components [Q (Tr), C, R] between IC1082/IC1083 and IC1086.

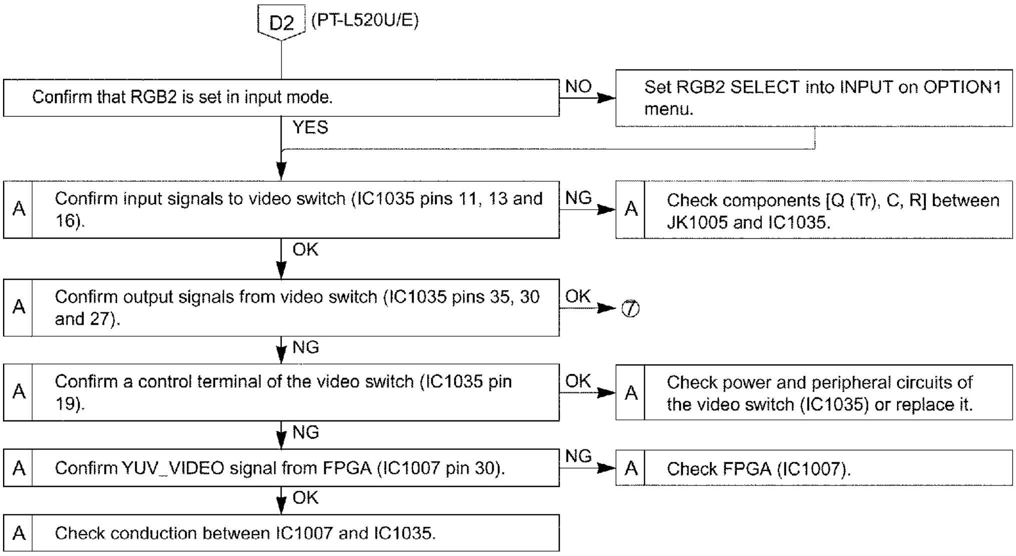


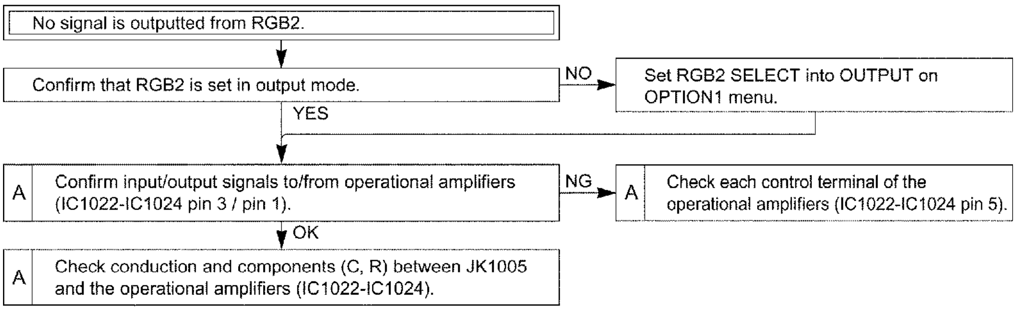
(PT-L520U/E)

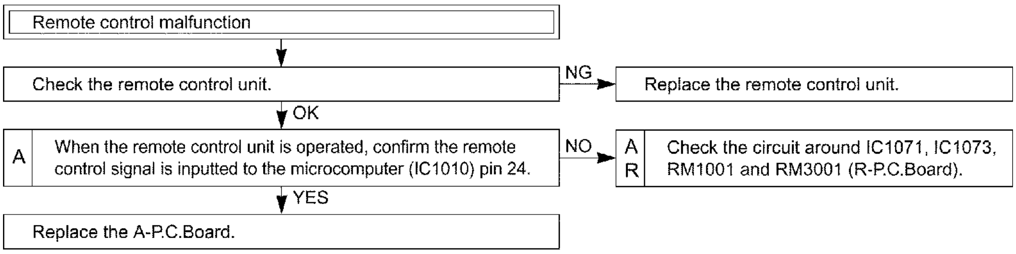
A Confirm input signals to video decoder (IC1033 pins 43 and 44).

A Check conduction and components [Q (Tr), D, C, R] between JK1001 and IC1033.


D1
A
Confirm input signals to A/D converter (IC1001 pins 5, 13 and 20).
NG
A
Check conduction and components [Q (Tr), C, R] between JK1004 and IC1001.
OK
⑦
A
Confirm output signals from A/D converter (IC1001 pins 70-120).
NG
A
PLL in the A/D converter (IC1001) operation check
Confirm PLLHA and HSPLL are locked.
HSIN: IC1002 pin 1 (PT-L720U/E) or IC1028 pin 5 (PT-LC520U/E).
PLLHS: TPA17
PLLCK: Pin 123
YES
NO
A
Check I/O signals to/from IC1002 (PT-L720U/E) or IC1028 (PT-LC520U/E), or replace it.
A
Check data settings and power supply for the A/D converter (IC1001) or replace it.
OK
A
Resize IC input (IC1005 pins 147-173) check
Confirm sync input signals to resize IC (IC1005).
PIHS: Pin 175
PIVS: Pin 176
PLLCK1: Pin 178
NG
A
Check conduction and resistors (R) between IC1005 and IC1001/IC1007.
OK
A
Check power supply for the resize IC (IC1005) or replace it.


D2
(PT-L520U/E)
Confirm that RGB2 is set in input mode.
NO
Set RGB2 SELECT into INPUT on OPTION1 menu.
YES
A
Confirm input signals to video switch (IC1035 pins 11, 13 and 16).
NG
A
Check components [Q (Tr), C, R] between JK1005 and IC1035.
OK
A
Confirm output signals from video switch (IC1035 pins 35, 30 and 27).
OK
⑦
NG
A
Confirm a control terminal of the video switch (IC1035 pin 19).
OK
A
Check power and peripheral circuits of the video switch (IC1035) or replace it.
NG
A
Confirm YUV_VIDEO signal from FPGA (IC1007 pin 30).
NG
A
Check FPGA (IC1007).
OK
A
Check conduction between IC1007 and IC1035.


No signal is outputted from RGB2.
Confirm that RGB2 is set in output mode.
NO
Set RGB2 SELECT into OUTPUT on OPTION1 menu.
YES
A
Confirm input/output signals to/from operational amplifiers (IC1022-IC1024 pin 3 / pin 1).
NG
A
Check each control terminal of the operational amplifiers (IC1022-IC1024 pin 5).
OK
A
Check conduction and components (C, R) between JK1005 and the operational amplifiers (IC1022-IC1024).


Remote control malfunction
Check the remote control unit.
NG
Replace the remote control unit.
OK
A
When the remote control unit is operated, confirm the remote control signal is inputted to the microcomputer (IC1010) pin 24.
NO
A
R
Check the circuit around IC1071, IC1073, RM1001 and RM3001 (R-P.C.Board).
YES
Replace the A-P.C.Board.

9. Interconnection Block Diagram

9.1. Interconnection Block Diagram (1/2)

9.2. Interconnection Block Diagram (2/2)

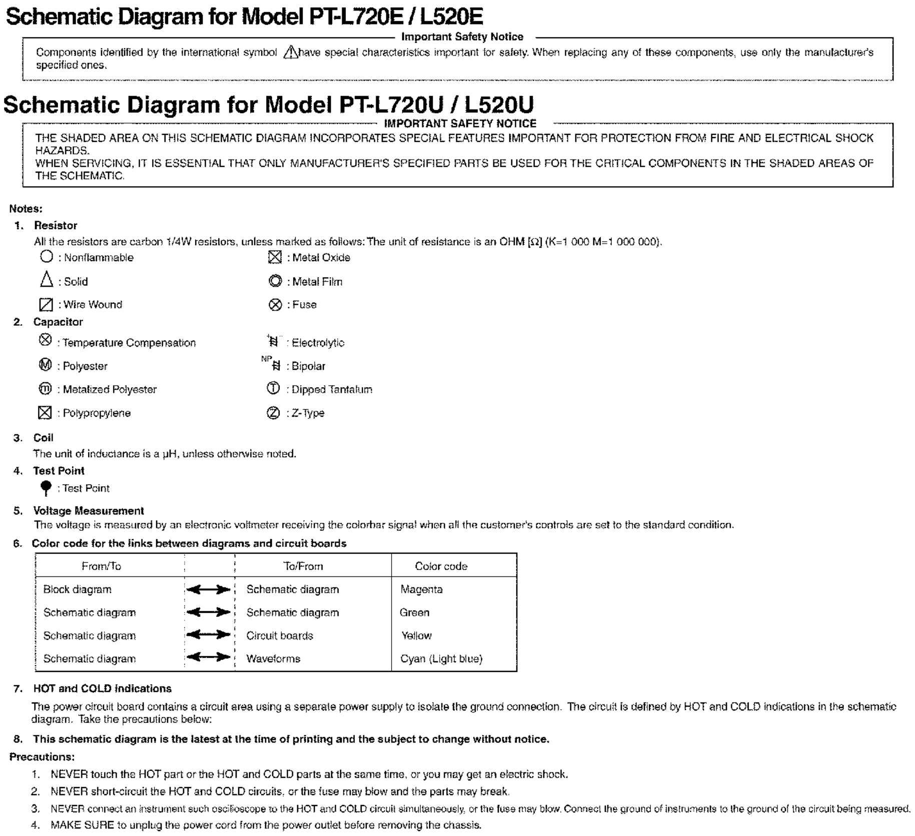
10. Block Diagram

10.1. Power Supply

10.2. Signal Processing (1/2)

10.3. Signal Processing (2/2)

11. Schematic Diagram



Schematic Diagram for Model PT-L720E / L520E

Important Safety Notice

Components identified by the international symbol ⚠ have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified ones.

Schematic Diagram for Model PT-L720U / L520U

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS.
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Notes:

1. **Resistor**
   All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).
   ○ : Nonflammable
   △ : Solid
   ⧄ : Wire Wound
   ☒ : Metal Oxide
   ◎ : Metal Film
   ⊗ : Fuse
2. **Capacitor**
   ⊗ : Temperature Compensation
   Ⓜ : Polyester
   ⓜ : Metalized Polyester
   ☒ : Polypropylene
   : Electrolytic
   NP : Bipolar
   Ⓣ : Dipped Tantalum
   Ⓩ : Z-Type
3. **Coil**
   The unit of inductance is a μH, unless otherwise noted.
4. **Test Point**
   ● : Test Point
5. **Voltage Measurement**
   The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.
6. **Color code for the links between diagrams and circuit boards**

From/To		To/From	Color code
Block diagram	↔	Schematic diagram	Magenta
Schematic diagram	↔	Schematic diagram	Green
Schematic diagram	↔	Circuit boards	Yellow
Schematic diagram	↔	Waveforms	Cyan (Light blue)

7. **HOT and COLD indications**
   The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:
8. **This schematic diagram is the latest at the time of printing and the subject to change without notice.**

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

11.1. A-P.C.Board (PT-L720U/E) (1/5)

11.2. A-P.C.Board (PT-L720U/E) (2/5)

11.3. A-P.C.Board (PT-L720U/E) (3/5)

11.4. A-P.C.Board (PT-L720U/E) (4/5)

11.5. A-P.C.Board (PT-L720U/E) (5/5)

11.6. A-P.C.Board (PT-L520U/E) (1/5)

11.7. A-P.C.Board (PT-L520U/E) (2/5)

11.8. A-P.C.Board (PT-L520U/E) (3/5)

11.9. A-P.C.Board (PT-L520U/E) (4/5)

11.10. A-P.C.Board (PT-L520U/E) (5/5)

11.11. P-Module (1/2)

11.12. P-Module (2/2)

12. Circuit Boards

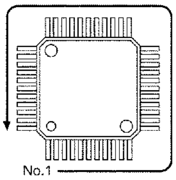
12.1. A-P.CBoard (PT-L720U/E) (Foil Side)

12.2. A-P.CBoard (PT-L720U/E) (Component Side)

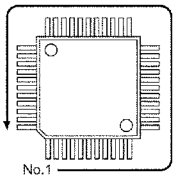
12.3. A-P.CBoard (PT-L520U/E) (Foil Side)

12.4. A-P.CBoard (PT-L520U/E) (Component Side)

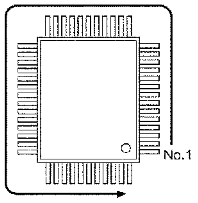
13. Terminal guide of ICs and transistors



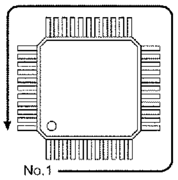
C1AB00001524	208 Pin
C1AB00001516	176 Pin
C1ZBZ0001965	144 Pin
C1AB00001671	176 Pin



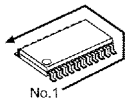
C2GBC0000135	112 Pin



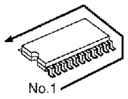
C0FBAD000067	128 Pin
C1AB00001556	48 Pin
C3HBMJ000006	100 Pin



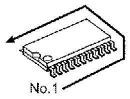
C1AB00001494	208 Pin
MN8271AT	208 Pin
C1AB00001523	48 Pin
C1AB00001522	48 Pin



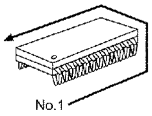
C1CB00001014	20 Pin
C2BBCB000013	18 Pin
M52755FP	36 Pin
C3ABPJ000035	86 Pin
C0ZBZ0000624	28 Pin
C0JBAR000327	16 Pin
BA7078AF	18 Pin
TC74LCX574FT	20 Pin
M62399FP	20 Pin
C0JBAZ000855	20 Pin



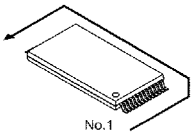
C1AB00001555	28 Pin



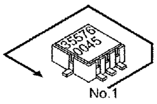
C1BB00000646	20 Pin



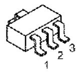
C3BBFC000127	28 Pin



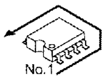
TVRJ751	48 Pin
TVRJ743	48 Pin



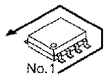
C1GB00000041	8 Pin



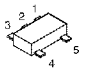
C0CBABD00017	3 Pin



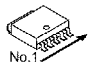
C3EBCC000045	8 Pin



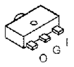
NJM2172V	14 Pin
C0FBBD000065	8 Pin
C0JBAZ001264	8 Pin
C3EBJC000037	8 Pin
C0JBAZ000855	20 Pin
M51957BFP	8 Pin
C0JBAB000003	8 Pin
C0JBAB000004	8 Pin



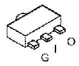
TC7SH32FTL	5 Pin



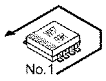
C0DBEZE00002	5 Pin
PQ07VZ012ZP	5 Pin



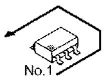
AN78L12M	3 Pin
AN78L05M	3 Pin



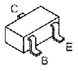
C0CBAAD00008	3 Pin
C0CBABD00015	3 Pin
C0CBADD00009	3 Pin



C0JBAR000308	8 Pin



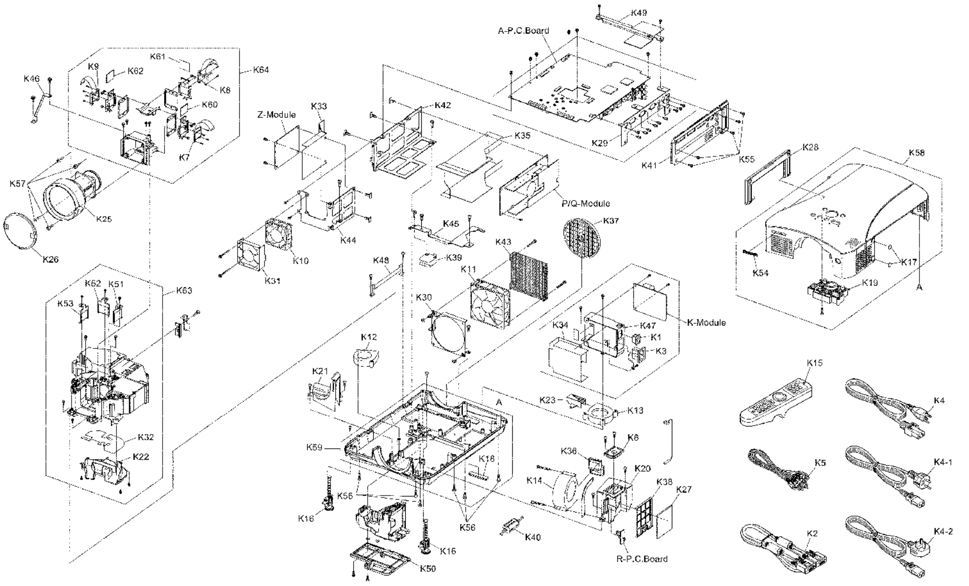
C0ABGB000016	6 Pin



2SB709A
2SD601AR
2SB710A

14. Exploded Views

Exploded Views


K49
A-P.C.Board
K61
K9
K62
K64
K46
K8
K60
Z-Module
K33
K42
K35
K29
K41
K55
K28
K58
K7
K57
K25
K26
P/Q-Module
K37
K45
K44
K10
K31
K48
K39
K43
K11
K54
K17
K19
A
K62
K51
K63
K53
K30
K34
K47
K-Module
K1
K3
K12
K21
K15
K4
K23
K13
A
K59
K6
K36
K5
K4-1
K32
K22
K18
K20
K14
K38
K27
K56
K16
K56
K40
K2
K4-2
K16
K50
R-P.C.Board

15. Replacement Parts List

Important Safety Notice

Components identified by the International symbol ⚠ have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of Part Name and Description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : ± 1 %
F : Fuse	G : ± 2 %
M : Metal Oxide	J : ± 5 %
Metal Film	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : ±0.25 pF
E : Electrolytic	D : ±0.5 pF
P : Polyester	F : ± 1 pF
PP : Polypropylene	J : ± 5 %
S : Polystyrol	K : ±10 %
T : Tantalum	L : ±15 %
	M : ±20 %
	P : +100 %, -0 %
	Z : +80 %, -20 %

Notes:

For G** of Ref. No., not indicate illustration of it part on "Exploded Views".
Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

15.1. PT-L720U/E

Ref. No.	Part No.	Part Name & Description	Remarks
		[MECHANICAL PARTS]	
G1	D4CDH5030001	THERMISTER	
K1	K0AACE000015	AC SWITCH	⚠
K2	K1HB15FA0001	VGA CABLE	
K3	K2AH3B000016	AC INLET	⚠
K4	K2CG3FZ00008	POWER CORD	⚠PT-L720U
K4-1	K2CM3FZ00001	POWER CORD(continental)	⚠PT-L720E
K4-2	K2CT3FZ00001	POWER CORD(U.K)	⚠PT-L720E
K5	K2KA2FA00001	AV CABLE	
K6	L0AA04C00002	SPEAKER	
K7	L5BDAXQ00095	LIQUID CRYSTAL DISPLAY(R)	L3P09X-31G00 / (RED MARK)
K8	L5BDAXQ00096	LIQUID CRYSTAL DISPLAY(G)	L3P09X-32G00 / (NO MARK)
K9	L5BDAXQ00097	LIQUID CRYSTAL DISPLAY(B)	L3P09X-31G00 / (BLUE MARK)
K7	L5BDAXQ00098	LIQUID CRYSTAL DISPLAY(R)	L3P09X-32G00 / (RED MARK)
K8	L5BDAXQ00099	LIQUID CRYSTAL DISPLAY(G)	L3P09X-31G00 / (NO MARK)
K9	L5BDAXQ00100	LIQUID CRYSTAL DISPLAY(B)	L3P09X-32G00 / (BLUE MARK)
K10	L6FAKDEH0002	FAN	⚠
K11	L6FAMEGH0006	VENTILATION FAN	⚠
K12	L6FCJC9H0001	COOL FAN (FOR LCD-B)	⚠
K13	L6FCKCAH0001	PBS FAN	⚠
K14	L6FCLFCH0001	FAN	⚠
K15	N2QAEA000008	REMOTE CONTROLLER	⚠
K16	TBLB3073	ADJUST LEG	
K17	TBLG3040	SIDE FOOT	
K18	TBLG3042	REBBER LEG (REAR)	
G2	TBME680	MODEL NEME PLATE	PT-L720U
	TBME681	MODEL NAME PLATE	PT-L720E
G3	TBME692	MODEL NO. LABEL	PT-L720U
	TBME693	MODEL NO. LABEL	PT-L720E
K19	TBXA35701	CONTROL BUTTON	
K20	TEEC5074	DUCT	
K21	TEEC5075	DUCT	
K22	TEEC5076	OPTICAL DUCT	
K23	TEEC5077	PBS DUCT	
G4	TEWA152	SHIELD GASKET	
G6	THEC035N	SCREW	
G7	THEC053U	SCREW	
G8	THEC053U	SCREW	
G9	THEC053U	SCREW	
K25	TKGF0064	LENS	
K26	TKKL5228	LENS COVER	
K27	TKNE047	FILTER	
K28	TKRA30101	HANDLE	
K29	TKZF5020	TERMINAL METAL	
K30	TKZJ5036	FAN METAL	
K31	TKZJ5037	FAN METAL	
K32	TKZX5160	RECTIFICATION BOARD	
G10	TMKG336	RUBBER SEAL	

Ref. No.	Part No.	Part Name & Description	Remarks
G11	TMKG337	SPONGE(1)	
G12	TMKG338	SPONGE(2)	
G13	TMKK103	SHEET	
G14	TMKX100	WASHER	
G15	TMKX264-1	SHEET	
K33	TMKX391	SHEET	
K34	TMKX392	SHEET	
K35	TMKX419	INSULATION SHEET(POWER)	
G16	TMKX420	INSULATION SHEET(Q-PCB)	
G17	TMKX429	HANDLE SHIELD SHEET	
K36	TMMA035	FAN ADAPTER	
G18	TMME090	SPACER	
G19	TMME159	SPACER	
G20	TMMX024	SHEET	
K37	TMMX083	VENTILATION COVER	
G21	TMXC013	TEMP FUSE METAL	
K38	TMZX5025	FILTER COVER	
G22	TPCB24502	CARTON	PT-L720U
	TPCB24503	CARTON	PT-L720E
G23	TPDF0818	ACCESSORY CARTON	
G24	TPDF0872	CUSHION	
G25	TPDF0873	CARRING CASE CUSHION	
G26	TPEH124	SET COVER	
G27	TPEP007	CARRING CASE	
G28	TQB817002-1	SAFETY SHEET	PT-L720U
G29	TQBJ0104-1	INSTRUCTION BOOK	⚠PT-L720U
	TQBJ0105-1	INSTRUCTION BOOK	⚠PT-L720E
G30	TQD1712010	SHEET	
G31	TQDJ18004	WARRANTY CARD (CANADA)	PT-L720U
G32	TQDJ18015	WARRANTY CARD (USA)	PT-L720U
G33	TQF86202	LABEL	
K39	TSEX8005	SWITCH	⚠K0ADBF000007
K40	TSK1018	FERRITE CORE	J0KG00000013
G34	TSXL193	FLEX CABLE	
K41	TTFA0117	TERMINAL COVER	
K42	TUCC5800	POWER BOX 1	
K43	TUCC5802	PLATE	
K44	TUCC5804	POWER BOX 2	
G35	TUCC5829-1	SHIELD PLATE (K-PCB)	
G36	TUCJ5439	RADIATOR PLATE	
K45	TUCX5105	EARTH METAL	
K46	TUCX5106	EARTH METAL	
K47	TUWC036	CIRCUIT BOARD K METAL	
K48	TUXA148	REINFORCEMENT METAL	
G37	TUXA153	METAL 1 (HANDLE)	
G38	TUXA154	METAL 2 (HANDLE)	
K49	TUXE183	WL METAL(3)	
K50	TXFKK01VJN7	LAMP COVER	
G39	TXJ/K1VJN7	TEMP FUSE WITH WIRE	⚠
K51	TXZKG02VJN7	POLARIZING PLATE/IN(R)	
K52	TXZKG03VJN7	POLARIZING PLATE/IN(G)	
K53	TXZKG04VJN7	POLARIZING PLATE/IN(B)	
K54	VGB0531	PANASONIC MARK	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
K55	XSB3+8FN	SCREW	
K56	XSN4+10	SCREW	
G40	XSS2+6FZ	SCREW	
G41	XTB4+20J	SCREW	
G42	XTBT969Z	SCREW	
G43	XTN3+6G	SCREW	
G44	XTV3+10G	SCREW	
G45	XTV3+12A	SCREW	
G46	XTW3+8P	TAPPING SCREW	
G47	XYC2+BG6	SCREW	
G48	XYN2+F10	SCREW	
G49	XYN3+F6	SCREW	
G50	XYN3+J10	SCREW	
G51	XYN3+J35	SCREW	
G52	XYN3+J8	SCREW	
K57	THEL034	SCREW	
G53	XYN4+E8	SCREW	
G54	XYN4+F25	SCREW	
G55	XYN4+J10	SCREW	
G56	XZBT6532	BAG	PT-L720U
K58	TXFKF98PQAZ	UPPER COVER	
K59	TXFKF99PQAZ	BOTTOM COVER	PT-L720U
	TXFKF99PQEZ	BOTTOM COVER	PT-L720E
K60	TXFGP99VJN7A	POLARIZING PLATE/OUT(R)	
	TXFGP99VJN7B	POLARIZING PLATE/OUT(R)	
K61	TXFGP98VJN7A	POLARIZING PLATE/OUT(G)	
	TXFGP98VJN7B	POLARIZING PLATE/OUT(G)	
K62	TXFGP97VJN7A	POLARIZING PLATE/OUT(B)	
	TXFGP97VJN7B	POLARIZING PLATE/OUT(B)	
K63	TXFEC99VJN7	ANALYSIS BLOCK	
K64	TXFEN99VJN7	OPTICAL BLOCK	
[INTEGRATED CIRCUIT]			
IC1001	C0FBAD000067	I.C	
IC1002	TC7SH08F	I.C	
IC1003	C1AB00001680	I.C	
IC1004	C0JBAR000327	I.C	
IC1005	C1AB00001524	I.C	
IC1006	C3ABPJ000035	I.C	
IC1007	C1ZBZ0001965	I.C	
IC1009	C0ZBZ0000692	I.C	
IC1010	C2GBC0000135	I.C	
IC1011	TVRJ750-2	I.C	
IC1012	TC74LCX574FT	I.C	
IC1013	TC7SH32F	I.C	C0JBAE000191
IC1014	C0JBAZ000855	I.C	
IC1016	M51957BFP	I.C	C0EBB0000024
IC1017	C3EBJC000037	I.C	
IC1018	C1GB00000041	I.C	
IC1020	C3EBCC000045	I.C	
IC1021	C3EBCC000045	I.C	
IC1022	C0ABGB000016	I.C	
IC1023	C0ABGB000016	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1024	C0ABGB000016	I.C	
IC1026	C1BB00000646	I.C	
IC1027	C3BBFC000127	I.C	
IC1029	C0DBEZE00002	I.C	
IC1030	C0DBEZE00002	I.C	
IC1031	C0DBEZE00002	I.C	
IC1032	C0JBAZ001264	I.C	
IC1033	C0JBAZ001264	I.C	
IC1034	C0JBAB000003	I.C	
IC1035	C0JBAB000004	I.C	
IC1042	C0CBABD00015	I.C	
IC1043	PQ07VZ012ZP	I.C	C0DBEZG00004
IC1044	C0CBAAD00008	I.C	
IC1045	C0CBABD00017	I.C	
IC1046	C0CBABD00015	I.C	
IC1050	C1AB00001671	I.C	
IC1051	C1AB00001523	I.C	
IC1052	C1AB00001523	I.C	
IC1053	C1AB00001523	I.C	
IC1054	C1AB00001523	I.C	
IC1055	C1AB00001523	I.C	
IC1056	C1AB00001523	I.C	
IC1057	C1AB00001522	I.C	
IC1058	C1AB00001522	I.C	
IC1059	C0FBBD000065	I.C	
IC1060	M62399FP	I.C	C0FBBD000088
IC1061	AN78L12M	I.C	
IC1062	AN78L05M	I.C	
IC1064	C0JBAR000327	I.C	
IC1065	NJM2172V	I.C	C0ZBZ0000269
IC1070	C1CB00001014	I.C	
IC1071	C0JBAZ000855	I.C	
IC1073	C2BBCB000013	I.C	
IC1074	C0JBAZ000855	I.C	
IC1075	C9ZB00000421	I.C	
IC1081	PQ1R50	I.C	C0CBADC00032
IC1082	C1AB00001248	I.C	
IC1083	C1AB00001226	I.C	
IC1084	C0CBCBF00001	I.C	
IC1085	PQ1R33	I.C	C0CBABC00037
IC1086	C1AB00001494	I.C	
IC1087	TVSA0500	I.C	C3ABMG000074
IC1088	MN8271AT	I.C	
IC1089	TVRJ743	I.C	
IC1090	C3HBMJ000006	I.C	
IC9201	C0DBZZZ00046	I.C	
IC9202	C0DBEZE00002	I.C	
IC9203	C0BBAB000010	I.C	
IC9601	C0ZAZ0000077	I.C	
IC9701	AN78L09M	I.C	
IC9702	AN78L05M	I.C	
IC9703	C0DBALC00005	I.C	
[TRANSISTORS]			

Ref. No.	Part No.	Part Name & Description	Remarks
Q1001	2SD601AR	TRANSISTOR	2SD0601AR
Q1002	2SD601AR	TRANSISTOR	2SD0601AR
Q1003	2SK198R	TRANSISTOR	2SK01980R
Q1004	2SD601AR	TRANSISTOR	2SD0601AR
Q1005	2SB709A	TRANSISTOR	2SB0709A
Q1006	2SD601AR	TRANSISTOR	2SD0601AR
Q1007	2SD601AR	TRANSISTOR	2SD0601AR
Q1008	2SD601AR	TRANSISTOR	2SD0601AR
Q1009	2SB709A	TRANSISTOR	2SB0709A
Q1010	2SB709A	TRANSISTOR	2SB0709A
Q1011	2SD601AR	TRANSISTOR	2SD0601AR
Q1012	B1ABBB000032	TRANSISTOR	
Q1013	B1ABBB000032	TRANSISTOR	
Q1014	B1ABBB000032	TRANSISTOR	
Q1015	2SD601AR	TRANSISTOR	2SD0601AR
Q1019	B1ABBB000032	TRANSISTOR	
Q1020	2SD601AR	TRANSISTOR	2SD0601AR
Q1021	2SD601AR	TRANSISTOR	2SD0601AR
Q1022	B1ABBB000032	TRANSISTOR	
Q1023	B1ABBB000032	TRANSISTOR	
Q1024	2SD601AR	TRANSISTOR	2SD0601AR
Q1025	2SD601AR	TRANSISTOR	2SD0601AR
Q1026	2SB709A	TRANSISTOR	2SB0709A
Q1027	2SD601AR	TRANSISTOR	2SD0601AR
Q1028	2SB709A	TRANSISTOR	2SB0709A
Q1029	2SD601AR	TRANSISTOR	2SD0601AR
Q1030	2SD601AR	TRANSISTOR	2SD0601AR
Q1031	2SD601AR	TRANSISTOR	2SD0601AR
Q1032	2SB709A	TRANSISTOR	2SB0709A
Q1033	2SD601AR	TRANSISTOR	2SD0601AR
Q1034	2SB709A	TRANSISTOR	2SB0709A
Q1035	2SD601AR	TRANSISTOR	2SD0601AR
Q1036	2SB709A	TRANSISTOR	2SB0709A
Q1037	2SD601AR	TRANSISTOR	2SD0601AR
Q1038	2SD601AR	TRANSISTOR	2SD0601AR
Q1039	2SK620	FET	2SK0620
Q1040	2SK620	FET	2SK0620
Q1041	2SD601AR	TRANSISTOR	2SD0601AR
Q1042	2SD601AR	TRANSISTOR	2SD0601AR
Q1043	2SD601AR	TRANSISTOR	2SD0601AR
Q1044	2SK620	FET	2SK0620
Q1045	2SK620	FET	2SK0620
Q1049	2SD601AR	TRANSISTOR	2SD0601AR
Q1052	2SB709A	TRANSISTOR	2SB0709A
Q1053	2SB709A	TRANSISTOR	2SB0709A
Q1054	2SB709A	TRANSISTOR	2SB0709A
Q1055	2SD601AR	TRANSISTOR	2SD0601AR
Q1056	2SD601AR	TRANSISTOR	2SD0601AR
Q1057	2SD601AR	TRANSISTOR	2SD0601AR
Q1058	2SD601AR	TRANSISTOR	2SD0601AR
Q1059	2SB709A	TRANSISTOR	2SB0709A
Q1060	2SD601AR	TRANSISTOR	2SD0601AR
Q1061	2SB709A	TRANSISTOR	2SB0709A

Ref. No.	Part No.	Part Name & Description	Remarks
Q1062	2SD601AR	TRANSISTOR	2SD0601AR
Q1063	2SB709A	TRANSISTOR	2SB0709A
Q1065	2SD601AR	TRANSISTOR	2SD0601AR
Q1821	2SB709A	TRANSISTOR	2SB0709A
Q1822	2SB709A	TRANSISTOR	2SB0709A
Q1823	2SD601AR	TRANSISTOR	2SD0601AR
Q1824	2SD601AR	TRANSISTOR	2SD0601AR
Q1825	2SD601AR	TRANSISTOR	2SD0601AR
Q9201	B1DEGQ000017	TRANSISTOR	
Q9202	B1DEGQ000017	TRANSISTOR	
Q9205	2SD601AR	TRANSISTOR	2SD0601AR
Q9206	2SB709A	TRANSISTOR	2SB0709A
Q9208	2SD601AR	TRANSISTOR	2SD0601AR
Q9601	B1DEGQ000017	TRANSISTOR	
Q9602	B1DEGQ000017	TRANSISTOR	
Q9606	2SB710A	TRANSISTOR	2SB0710A
Q9607	2SB710A	TRANSISTOR	2SB0710A
Q9608	B1JACQ000002	TRANSISTOR	
Q9609	B1JACQ000002	TRANSISTOR	
Q9610	2SB710A	TRANSISTOR	2SB0710A
Q9611	2SB710A	TRANSISTOR	2SB0710A
Q9612	B1JACQ000002	TRANSISTOR	
Q9613	B1JACQ000002	TRANSISTOR	
[DIODES]			
D151	S1VBA60	DIODE	⚠
D1001	D4B503390001	THERMISTOR	
D1002	MA3056M	ZENER DIODE	MAZ30560M
D1003	MA3056M	ZENER DIODE	MAZ30560M
D1004	MA3056M	ZENER DIODE	MAZ30560M
D1005	MA3056M	ZENER DIODE	MAZ30560M
D1006	MA3056M	ZENER DIODE	MAZ30560M
D1007	MA3056M	ZENER DIODE	MAZ30560M
D1008	MA3056M	ZENER DIODE	MAZ30560M
D1009	MA3150M	DIODE	MAZ31500M
D1010	MA3150M	DIODE	MAZ31500M
D1011	MA3150M	DIODE	MAZ31500M
D1012	MA3150M	DIODE	MAZ31500M
D1013	MA3056M	ZENER DIODE	MAZ30560M
D1014	MA3056M	ZENER DIODE	MAZ30560M
D1015	MA157A	DIODE	MA3X157A
D1016	MA157A	DIODE	MA3X157A
D1017	MA157A	DIODE	MA3X157A
D1018	MA3056M	ZENER DIODE	MAZ30560M
D1019	MA3056M	ZENER DIODE	MAZ30560M
D1020	MA3056M	ZENER DIODE	MAZ30560M
D1021	MA3056M	ZENER DIODE	MAZ30560M
D1022	MA157A	DIODE	MA3X157A
D1023	MA157A	DIODE	MA3X157A
D1024	MA157A	DIODE	MA3X157A
D1025	MA157A	DIODE	MA3X157A
D1026	MA157A	DIODE	MA3X157A
D1027	MA157A	DIODE	MA3X157A

[illegible]	[illegible]	DIODE	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
D1028	MA157A	DIODE	MA3X157A
D1032	MA3047M	DIODE	MAZ30470M
D1033	MA728	DIODE	MA2J728
D1034	MA3047M	DIODE	MAZ30470M
D1035	LNJ208R8ARA	LED	
D1036	LNJ208R8ARA	LED	
D1037	LNJ208R8ARA	LED	
D1065	D4B503390001	THERMISTOR	
D1071	MA3100H	ZENER DIODE	MAZ31000H
D1072	MA3100H	ZENER DIODE	MAZ31000H
D1073	MA3100H	ZENER DIODE	MAZ31000H
D1074	MA3100H	ZENER DIODE	MAZ31000H
D1821	LNJ107W5ARA1	LED	
D1822	LNJ208R8ARA	LED	
D1823	LNJ208R8ARA	LED	
D1824	LNJ308G8TRA	LED	
D3001	MA157A	DIODE	MA3X157A
D9202	B2BAKR000006	DIODE	⚠
D9203	B3PAC0000035	DIODE	
D9207	M1FL20UF4063	DIODE	B0HCMM000009
D9208	MA720	DIODE	MA3X720
D9607	MA158	DIODE	MA3X158
D9610	MA158	DIODE	MA3X158
D9611	MA720	DIODE	MA3X720
D9613	MA158	DIODE	MA3X158
D9614	MA720	DIODE	MA3X720
D9616	MA158	DIODE	MA3X158
D9617	MA720	DIODE	MA3X720
D9619	MA720	DIODE	MA3X720
D9620	MA720	DIODE	MA3X720
D9621	MA720	DIODE	MA3X720
D9622	MA720	DIODE	MA3X720
D9623	MA720	DIODE	MA3X720
D9624	B0HCKP000002	DIODE	
D9625	B0HCKP000002	DIODE	
D9626	MA720	DIODE	MA3X720
D9627	MA720	DIODE	MA3X720
D9628	MA720	DIODE	MA3X720
D9629	MA720	DIODE	MA3X720
D9630	MA720	DIODE	MA3X720
D9631	B0HCKP000002	DIODE	
D9632	B0HCKP000002	DIODE	
[COILS]			
L1001	EXCML16A270	BEAD CORE	
L1002	ELJFA470JF	COIL	
L1003	EXCML16A270	BEAD CORE	
L1004	ELJFA6R8JB	CHIP COIL	
L1005	ELJFA6R8JB	CHIP COIL	
L1006	ELJFA6R8JB	CHIP COIL	
L1007	EXCML16A270	BEAD CORE	
L1008	EXCML16A270	BEAD CORE	
L1009	ELJFA100KF	COIL	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
L1010	ELJFA100KF	COIL	
L1011	ELJFA6R8JB	CHIP COIL	
L1012	EXCML16A270	BEAD CORE	
L1013	EXCML16A270	BEAD CORE	
L1015	EXCML16A270	BEAD CORE	
L1016	EXCML16A270	BEAD CORE	
L1017	EXCML16A270	BEAD CORE	
L1020	EXCML16A270	BEAD CORE	
L1023	EXCML16A270	BEAD CORE	
L1024	ELJFA470JF	COIL	
L1025	EXCML16A270	BEAD CORE	
L1026	EXCML16A270	BEAD CORE	
L1027	ELJFA6R8JB	CHIP COIL	
L1028	ELJFA470JF	COIL	
L1029	EXCML16A270	BEAD CORE	
L1030	EXCML16A270	BEAD CORE	
L1034	EXCML16A270	BEAD CORE	
L1035	EXCML16A270	BEAD CORE	
L1036	EXCML16A270	BEAD CORE	
L1042	EXCML16A270	BEAD CORE	
L1046	EXCML16A270	BEAD CORE	
L1047	EXCML16A270	BEAD CORE	
L1048	EXCML16A270	BEAD CORE	
L1049	EXCML16A270	BEAD CORE	
L1050	EXCML16A270	BEAD CORE	
L1051	EXCML16A270	BEAD CORE	
L1052	EXCML16A270	BEAD CORE	
L1053	EXCML16A270	BEAD CORE	
L1054	EXCML16A270	BEAD CORE	
L1055	EXCML16A270	BEAD CORE	
L1056	EXCML16A270	BEAD CORE	
L1057	EXCML16A270	BEAD CORE	
L1058	EXCML16A270	BEAD CORE	
L1061	ERJ6GEY0R00	M 0 OHM,J,1/10W	
LC1002	ELKE471FA	EMI FILTER	
LC1003	ELKE471FA	EMI FILTER	
LC1004	ELKE471FA	EMI FILTER	
LC1005	ELKE471FA	EMI FILTER	
LC1036	ELKE471FA	EMI FILTER	
LC1037	ELKE471FA	EMI FILTER	
		[RESISTORS]	
R134	ERX2SJ2R2	M 2.2 OHM,J,2W	
R1020	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1024	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1025	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1026	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1027	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1028	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1029	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1030	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1031	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1032	ERJ3GEYJ221	M 220 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1033	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1035	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1036	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1037	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1038	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1039	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1040	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1041	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1042	ERJ6ENF1500	M 150 OHM, 1/10W	
R1043	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1044	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1045	EXB38V220J	RESISTOR ARRAY	
R1046	EXB38V220J	RESISTOR ARRAY	
R1047	EXB38V220J	RESISTOR ARRAY	
R1048	EXB38V220J	RESISTOR ARRAY	
R1050	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1051	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1052	EXB38V220J	RESISTOR ARRAY	
R1053	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1054	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1055	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1056	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1060	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1061	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1062	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1063	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1064	ERJ3GEYJ823	M 82KOHM,J,1/16W	
R1065	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1066	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1067	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1068	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1069	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1070	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1071	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1072	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1073	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1074	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1075	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1076	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1077	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1078	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1079	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1080	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1081	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1082	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1083	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1084	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1085	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1086	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1087	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1088	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1089	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1090	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1091	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1093	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1094	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1095	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1096	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1097	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1098	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1099	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1100	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1104	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1105	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1106	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1107	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1108	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1109	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1110	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1111	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1112	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1113	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1114	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1115	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1116	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1117	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1122	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1123	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1124	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1125	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1129	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1130	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1131	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1132	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1133	ERJ3GEYJ274	M 270 OHM,J,1/16W	
R1134	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1136	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1137	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1138	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1139	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1140	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1142	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1145	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1146	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1147	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1148	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1149	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1150	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1151	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1152	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1153	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1154	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1155	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1156	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1157	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1158	ERJ3GEYJ102	M 1K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1159	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1160	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1161	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1162	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1163	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1164	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1165	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1166	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1167	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1168	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1172	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1173	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1174	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1175	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1176	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1177	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1181	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1182	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1183	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1184	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1185	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1186	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1187	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1188	ERJ6ENF2001	M 2KOHM, 1/10W	
R1189	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1190	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1191	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1192	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1193	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1194	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1195	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1196	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1197	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1198	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1199	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1200	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1201	ERJ6ENF2700	M 270 OHM, 1/10W	
R1202	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1203	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1204	ERJ6ENF2001	M 2KOHM, 1/10W	
R1205	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1206	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1207	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1208	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1209	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1210	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1211	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1212	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1213	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1214	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1215	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1216	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1217	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1218	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1219	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1220	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1221	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1222	ERJ6ENF2700	M 270 OHM, 1/10W	
R1223	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1224	ERJ6ENF2001	M 2KOHM, 1/10W	
R1225	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1227	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1228	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1229	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1230	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1231	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1232	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1233	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1234	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1235	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1236	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1238	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1239	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1240	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1241	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1242	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1244	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1245	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1246	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1247	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1248	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1249	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1250	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1251	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1252	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1253	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1254	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1255	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1256	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1257	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1258	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1259	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1261	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1263	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1264	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1265	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1267	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1268	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1269	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1270	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1271	EXB38V560J	RESISTOR ARRAY	
R1272	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1273	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1274	EXB38V560J	RESISTOR ARRAY	
R1276	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1277	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1278	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1279	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1280	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R1288	EXB38V560J	RESISTOR ARRAY	
R1289	EXB38V560J	RESISTOR ARRAY	
R1290	EXB38V560J	RESISTOR ARRAY	
R1291	EXB38V560J	RESISTOR ARRAY	
R1292	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1293	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1294	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1295	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1296	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1297	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1303	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1304	EXB38V220J	RESISTOR ARRAY	
R1305	EXB38V220J	RESISTOR ARRAY	
R1306	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1308	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1309	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1330	EXB38V220J	RESISTOR ARRAY	
R1331	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1332	ERJ6ENF1001	M 1KOHM, 1/10W	
R1333	ERJ6ENF1001	M 1KOHM, 1/10W	
R1335	EXB38V560J	RESISTOR ARRAY	
R1336	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1337	EXB38V560J	RESISTOR ARRAY	
R1338	EXB38V560J	RESISTOR ARRAY	
R1339	EXB38V560J	RESISTOR ARRAY	
R1340	EXB38V560J	RESISTOR ARRAY	
R1341	EXB38V560J	RESISTOR ARRAY	
R1342	EXB38V560J	RESISTOR ARRAY	
R1345	EXB38V560J	RESISTOR ARRAY	
R1346	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1347	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1353	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1354	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1356	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1359	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1360	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1361	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1362	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1363	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1364	ERJ6ENF1243	M 124KOHM, 1/10W	
R1365	EXB38V220J	RESISTOR ARRAY	
R1366	EXB38V220J	RESISTOR ARRAY	
R1367	EXB38V220J	RESISTOR ARRAY	
R1369	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1373	EXB38V220J	RESISTOR ARRAY	
R1374	EXB38V220J	RESISTOR ARRAY	
R1375	EXB38V220J	RESISTOR ARRAY	
R1381	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1382	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1383	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1384	ERJ6ENF2202	M 2.2KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1385	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1386	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1387	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1388	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1389	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1391	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1393	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1394	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1395	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1399	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1400	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1401	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1403	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1404	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1406	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1407	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1409	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1416	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1417	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1420	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1421	EXB38V103J	RESISTOR ARRAY	
R1423	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1425	EXB38V220J	RESISTOR ARRAY	
R1426	EXB38V220J	RESISTOR ARRAY	
R1427	EXB38V220J	RESISTOR ARRAY	
R1428	EXB38V220J	RESISTOR ARRAY	
R1429	EXB38V220J	RESISTOR ARRAY	
R1431	EXB38V103J	RESISTOR ARRAY	
R1435	EXB38V103J	RESISTOR ARRAY	
R1436	EXB38V220J	RESISTOR ARRAY	
R1439	EXB38V103J	RESISTOR ARRAY	
R1440	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1441	EXB38V103J	RESISTOR ARRAY	
R1444	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1449	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1450	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1451	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1452	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1453	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1454	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1455	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1456	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1457	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1458	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1459	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1460	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1461	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1462	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1463	EXB38V220J	RESISTOR ARRAY	
R1464	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1470	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1472	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1473	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1474	EXB38V220J	RESISTOR ARRAY	
R1475	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1476	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1477	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1479	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1480	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1481	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1482	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1483	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1491	EXB38V220J	RESISTOR ARRAY	
R1492	EXB38V220J	RESISTOR ARRAY	
R1493	EXB38V220J	RESISTOR ARRAY	
R1494	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1496	EXB38V220J	RESISTOR ARRAY	
R1499	EXB38V220J	RESISTOR ARRAY	
R1500	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1501	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1502	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1503	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1504	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1508	EXB38VR000	RESISTOR ARRAY	
R1509	EXB38V220J	RESISTOR ARRAY	
R1510	EXB38V102J	RESISTOR ARRAY	
R1511	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1512	EXB38VR000	RESISTOR ARRAY	
R1513	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1516	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1517	EXB38V220J	RESISTOR ARRAY	
R1518	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1519	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1520	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1521	EXB38V220J	RESISTOR ARRAY	
R1522	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R1523	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1524	EXB38V220J	RESISTOR ARRAY	
R1525	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1526	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1527	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1528	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1529	EXB38V220J	RESISTOR ARRAY	
R1531	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1532	EXB38V220J	RESISTOR ARRAY	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1536	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1537	EXB38V220J	RESISTOR ARRAY	
R1538	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	EXB38V220J	RESISTOR ARRAY	
R1541	EXB38V220J	RESISTOR ARRAY	
R1542	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1543	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1544	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1545	EXB38V220J	RESISTOR ARRAY	
R1546	EXB38V220J	RESISTOR ARRAY	
R1547	EXB38V220J	RESISTOR ARRAY	
R1548	EXB38V220J	RESISTOR ARRAY	
R1549	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1550	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1551	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1552	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1553	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1554	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1555	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1556	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1558	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1559	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1560	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1561	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1562	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1563	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1564	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1565	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1566	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1567	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1568	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1569	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1570	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1571	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1572	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1573	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1574	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1575	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1576	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1577	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1578	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1579	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1580	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1581	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1582	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1583	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1584	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1585	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1586	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1587	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1588	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1589	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1590	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1591	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1592	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1593	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1594	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1595	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1596	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1597	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1598	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1599	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1600	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1601	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1602	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1603	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1604	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1605	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1606	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1607	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1608	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1609	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1610	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1611	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1612	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1613	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1614	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1615	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1616	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1617	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1618	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1619	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1620	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1621	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1622	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1623	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1624	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1625	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1626	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1627	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1628	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1629	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1630	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1631	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1632	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1633	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1634	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1635	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1636	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1637	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1638	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1639	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1640	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1641	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1642	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1643	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1644	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1645	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1646	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1647	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1648	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1649	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1650	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1651	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1652	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1653	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1654	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1655	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1656	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1657	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1658	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1659	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1660	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1661	ERJ6ENF2700	M 270 OHM, 1/10W	
R1662	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1663	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1701	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1702	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1703	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1704	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1705	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1706	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1707	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1708	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1709	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1710	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1711	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1712	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1713	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1714	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1715	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1716	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1717	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1718	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1719	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1720	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1721	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1722	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1723	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1724	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1725	ERJ3GEYF153	RESISTOR	
R1726	ERJ3GEYF153	RESISTOR	
R1727	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1728	ERJ3GEYF683	RESISTOR	
R1729	ERJ3GEYF183	M 48K OHM, 1/16W	
R1730	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1731	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1732	ERJ1TYJ470	RESISTOR	
R1733	ERJ1TYJ470	RESISTOR	
R1734	ERJ1TYJ470	RESISTOR	
R1735	ERJ1TYJ470	RESISTOR	
R1736	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1737	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1738	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1739	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1740	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1741	ERJ3GEYF472	RESISTOR	
R1742	ERJ3GEYF183	M 48K OHM, 1/16W	
R1743	ERJ1TYJ470	RESISTOR	
R1801	ERJ3GEYJ100	M 10 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1802	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R1803	ERJ6ENF1001	M 1KOHM, 1/10W	
R1804	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1805	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1806	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R1807	ERJ6ENF3302	M 33KOHM, 1/10W	
R1808	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1809	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R1810	ERJ6ENF1001	M 1KOHM, 1/10W	
R1811	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1812	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1813	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R1814	ERJ6ENF3302	M 33KOHM, 1/10W	
R1821	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1822	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1823	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1824	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1825	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1966	ERDS2TJ105	C 1M OHM,J, 1/4W	
R1995	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3001	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R3002	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R9231	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R9705	ERJ6GEYJ100	M 10 OHM,J,1/10W	
[CAPACITORS]			
C1002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1010	EEVHB1C101	E 100UF, 16V	
C1012	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1013	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1014	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1015	ECJ2XC1H102J	C 1000PF, J, 50V	
C1016	EEVHB0J330	E 33UF, 6.3V	
C1017	EEVHB0J330	E 33UF, 6.3V	
C1018	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1019	ECJ1XF1A105Z	C 1UF, 16V	
C1020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1021	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1022	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1023	ECJ1XF1A105Z	C 1UF, 16V	
C1024	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1025	EEVHB1A330	E 33UF, 10V	
C1026	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1028	EEVHB0J330	E 33UF, 6.3V	
C1029	ECJ1XF1A105Z	C 1UF, 16V	
C1030	ECJ1XF1A105Z	C 1UF, 16V	
C1031	ECJ1XF1A105Z	C 1UF, 16V	
C1032	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1033	ECJ1XF1A105Z	C 1UF, 16V	
C1034	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1035	ECJ1XF1A105Z	C 1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1037	ECJ1XF1A105Z	C 1UF, 16V	
C1038	ECJ1XF1A105Z	C 1UF, 16V	
C1039	ECJ1XC1H470J	C 47PF, J, 50V	
C1040	ECJ1XC1H080D	C 8PF, D, 50V	
C1041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1042	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1044	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1046	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1048	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1050	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1053	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1054	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1055	ECJ1XB1H472K	C 4700PF, K, 50V	
C1056	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1057	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1058	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1061	ECJ1XF1A105Z	C 1UF, 16V	
C1063	ECJ1XF1A105Z	C 1UF, 16V	
C1066	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1067	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1068	ECJ1XF1A105Z	C 1UF, 16V	
C1070	ECJ1XC1H680J	C 68PF, J, 50V	
C1071	ECJ1XC1H330J	C 33PF, J, 50V	
C1072	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1073	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1074	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1075	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1076	ECJ1XF1A105Z	C 1UF, 16V	
C1077	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1078	ECJ1XB1C104K	C 0.1UF, K, 16V	
C1079	ECJ1XC1H330J	C 33PF, J, 50V	
C1080	ECJ1XC1H680J	C 68PF, J, 50V	
C1081	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1082	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1083	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1084	ECJ1XB1C104K	C 0.1UF, K, 16V	
C1085	ECJ1XB1H222K	C 2200PF, K, 50V	
C1086	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1087	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1088	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1089	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1090	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1091	EEVHB0J330	E 33UF, 6.3V	
C1092	EEVHB0J330	E 33UF, 6.3V	
C1093	EEVHB0J470	E 47UF, 6.3V	
C1094	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1095	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1096	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1097	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1098	ECJ1XB1H222K	C 2200PF, K, 50V	
C1099	ECJ1XB1C104K	C 0.1UF, K, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1100	EEVHB0J330	E 33UF, 6.3V	
C1101	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1102	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1103	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1104	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1105	ECJ1XF1A105Z	C 1UF, 16V	
C1106	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1107	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1108	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1109	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1112	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1113	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1114	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1127	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1128	EEVHB1A221	E 220UF, 10V	
C1129	EEVHB1A221	E 220UF, 10V	
C1130	EEVHB1A221	E 220UF, 10V	
C1131	ECJ1XF1A105Z	C 1UF, 16V	
C1132	ECJ1XF1A105Z	C 1UF, 16V	
C1133	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1134	EEVHB0J330	E 33UF, 6.3V	
C1135	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1136	EEVHB0J330	E 33UF, 6.3V	
C1137	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1138	EEVHB0J330	E 33UF, 6.3V	
C1139	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1140	EEVHB0J330	E 33UF, 6.3V	
C1141	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1142	EEVHB0J330	E 33UF, 6.3V	
C1143	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1144	EEVHB0J330	E 33UF, 6.3V	
C1146	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1147	ECJ1XF1A105Z	C 1UF, 16V	
C1148	ECJ1XF1A105Z	C 1UF, 16V	
C1149	ECJ1XF1A105Z	C 1UF, 16V	
C1150	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1152	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1153	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1155	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1156	EEVHB1E330	E 33UF, 25V	
C1157	ECJ1XF1A105Z	C 1UF, 16V	
C1158	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1159	ECJ1XF1A105Z	C 1UF, 16V	
C1160	ECJ1XF1A105Z	C 1UF, 16V	
C1161	EEVHP1A100	E 10UF, 10V	
C1162	EEVHP1A100	E 10UF, 10V	
C1163	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1164	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1165	EEVHB1E330	E 33UF, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1166	EEVHP1A100	E 10UF, 10V	
C1167	EEVHP1A100	E 10UF, 10V	
C1168	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1169	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1170	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1171	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1172	EEVHB1E330	E 33UF, 25V	
C1173	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1174	EEVHB1A330	E 33UF, 10V	
C1175	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1176	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1177	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1178	EEVHB0J470	E 47UF, 6.3V	
C1179	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1180	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1181	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1182	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1183	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1184	ECJ1XF1A105Z	C 1UF, 16V	
C1185	EEVHB0J470	E 47UF, 6.3V	
C1186	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1187	ECJ1XF1A105Z	C 1UF, 16V	
C1188	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1189	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1190	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1191	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1192	ECJ1XB1H102K	C 1000PF, K, 50V	
C1193	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1194	ECJ1XB1H102K	C 1000PF, K, 50V	
C1195	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1196	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1197	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1198	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1201	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1202	ECJ1XC1H151J	C 150PF, 50V	
C1205	ECJ1XF1A105Z	C 1UF, 16V	
C1206	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1207	ECJ1XB1C473K	C 0.047UF, K,50V	
C1208	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1210	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1211	ECJ1XF1C474Z	C 0.47UF, 16V	
C1212	ECJ1XF1A105Z	C 1UF, 16V	
C1213	ECJ1XF1A105Z	C 1UF, 16V	
C1214	ECUX1H392KBV	C 3900PF, K, 50V	
C1215	ECJ1XB1C393K	C 0.039UF, 16V	
C1216	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1218	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1219	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1220	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1221	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1222	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1223	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1224	ECJ1XC1H331J	C 330PF, J, 50V	
C1225	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1226	ECJ1XF1A105Z	C 1UF, 16V	
C1227	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1228	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1229	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1232	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1233	ECJ1XC1H150J	C 15PF, J, 50V	
C1234	ECJ1XC1H150J	C 15PF, J, 50V	
C1235	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1236	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1237	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1238	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1239	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1240	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1242	EEVHB0J470	E 47UF, 6.3V	
C1243	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1244	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1245	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1246	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1247	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1248	EEVHB0G101	E 100UF, 4V	
C1249	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1250	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1251	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1252	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1253	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1255	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1257	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1258	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1260	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1261	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1265	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1266	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1267	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1268	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1269	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1270	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1271	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1272	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1273	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1274	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1275	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1276	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1277	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1278	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1279	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1280	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1281	ECJ1XF1A105Z	C 1UF, 16V	
C1282	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1283	ECJ1XB1C473K	C0.047UF, K, 16V	
C1284	ECJ1XB1C473K	C0.047UF, K, 16V	
C1286	ECJ1XF1A105Z	C 1UF, 16V	
C1287	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1288	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1289	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1290	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1291	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1292	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1293	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1294	ECJ1XC1H101J	C 100PF, J, 50V	
C1295	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1296	ECJ2XC1H471J	C 470PF, J, 50V	
C1299	ECJ1XC1H220J	C 22PF, J, 50V	
C1300	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1301	ECJ1XC1H220J	C 22PF, J, 50V	
C1302	EEVHB0J470	E 47UF, 6.3V	
C1303	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1304	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1305	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1306	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1308	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1309	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1310	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1312	EEVHB0G101	E 100UF, 4V	
C1313	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1314	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1315	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1316	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1317	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1318	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1319	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1320	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1322	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1323	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1324	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1325	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1326	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1327	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1328	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1329	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1330	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1331	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1332	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1333	EEVHB0G101	E 100UF, 4V	
C1337	EEVHB0J470	E 47UF, 6.3V	
C1338	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1339	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1340	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1341	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1342	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1343	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1344	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1345	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1346	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1347	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1348	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1349	EEVHB0J470	E 47UF, 6.3V	
C1350	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1351	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1352	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1353	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1355	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1356	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1357	EEVHB1E4R7	E 4.7UF, 25V	
C1358	EEVHB1E4R7	E 4.7UF, 25V	
C1359	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1360	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1361	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1362	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1363	EEVHB1A330	E 33UF, 10V	
C1364	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1365	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1366	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1367	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1368	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1369	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1370	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1371	EEVHB1E4R7	E 4.7UF, 25V	
C1372	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1373	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1374	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1375	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1376	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1377	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1378	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1379	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1380	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1381	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1382	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1383	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1384	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1385	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1386	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1387	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1388	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1389	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1390	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1391	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1392	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1393	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1394	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1395	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1396	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1397	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1398	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1399	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1400	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1401	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1402	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1403	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1406	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1407	ECJ1XF1A105Z	C 1UF, 16V	
C1408	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1409	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1410	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1411	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1412	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1413	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1414	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1415	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1416	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1417	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1418	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1419	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1420	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1421	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1422	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1423	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1424	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1425	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1426	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1427	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1428	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1429	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1430	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1431	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1432	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1433	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1434	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1435	EEVHB1E4R7	E 4.7UF, 25V	
C1436	EEVHB1E4R7	E 4.7UF, 25V	
C1437	EEVHB1E4R7	E 4.7UF, 25V	
C1438	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1439	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1441	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1442	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1444	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1445	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1447	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1448	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1450	EEVHB1E4R7	E 4.7UF, 25V	
C1451	EEVHB0J330	E 33UF, 6.3V	
C1452	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1453	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1454	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1455	EEVHB1E330	E 33UF, 25V	
C1456	EEVHB1E330	E 33UF, 25V	
C1457	EEVHB1E330	E 33UF, 25V	
C1458	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1459	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1460	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1461	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1462	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1463	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1464	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1465	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1466	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1467	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1478	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1479	ECA0JHG471	E 470UF, 6.3V	
C1480	ECJ1XF1A105Z	C 1UF, 16V	
C1485	EEVHB1C220	CAPACITOR	
C1490	EEVHB1C220	CAPACITOR	
C1499	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1500	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1501	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1502	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1503	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1504	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1505	EEVHB1A330	E 33UF, 10V	
C1506	ECJ1XF1A105Z	C 1UF, 16V	
C1507	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1508	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1509	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1510	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1511	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1512	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1964	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1965	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3001	EEVHB0J470	E 47UF, 6.3V	
C3002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
[OTHERS]			
A1	K1MN30B00087	30P CONNECTOR	
A2	K1MN30B00087	30P CONNECTOR	
A3	K1MN30B00087	30P CONNECTOR	
A4	TJSF43706	6P CONNECTOR	K1KA06B00096
A5	K1KA04B00007	4P CONNECTOR	
A6	K1KA13B00031	13P CONNECTOR	
A7	TJSF43703	3P CONNECTOR	K1KA03B00098
A9	K1KA02B00051	2P CONNECTOR	
A11	K1KA02B00051	2P CONNECTOR	
A12	K1KA02B00051	2P CONNECTOR	
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A16	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	TJS6A8780	3P CONNECTOR	K1KA03B00006
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	TJS6A8780	3P CONNECTOR	K1KA03B00006
F101	K5Y632B00001	FUSE	⚠
F102	K5Y632B00001	FUSE	⚠
JK1001	TJSF42904	CONNECTOR	K1CB204B0004

Ref. No.	Part No.	Part Name & Description	Remarks
JK1002	K2HA103A0006	PHONE PIN JACK	
JK1003	K2HC206B0003	CONNECTOR	
JK1004	TJSF45015	15P D-SUB	K1FB115B0058
JK1005	TJSF45015	15P D-SUB	K1FB115B0058
JK1006	K1FB109B0058	RS232C IN TERMINAL	
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1002	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1003	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1004	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1005	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1006	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1007	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1008	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1014	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1015	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1016	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1017	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1018	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1019	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1	TJSF43703	3P CONNECTOR	K1KA03B00098
RM1001	B3RAD0000038	REMOTE CONTROLL RECIVER	
RM3001	B3RAD0000038	REMOTE CONTROLL RECIVER	
S1801	EVQPLHA15	SWITCH	
S1802	EVQPLHA15	SWITCH	
S1803	EVQPLHA15	SWITCH	
S1804	EVQPLHA15	SWITCH	
S1805	EVQPLHA15	SWITCH	
S1806	EVQPLHA15	SWITCH	
S1807	EVQPLHA15	SWITCH	
S1808	EVQPLHA15	SWITCH	
S1809	EVQPLHA15	SWITCH	
S1810	EVQPLHA15	SWITCH	
X1001	TSSA148	CRYSTAL	H0J202500002
X1002	H1A7505B0001	CRYSTAL	
X1003	H0J737400005	CRYSTAL	
X1004	H1A2005B0014	CRYSTAL	
X1005	TSSA124	CRYSTAL	H0J120500007
Z101	ERZV10D471	VARISTOR	⚠
Z9601	G4F3E0000004	IGNITER	⚠
	TNPA2588	CIRCUIT BOARD Z	
	TNPA2602	CIRCUIT BOARD R	
	TXANP01VJN7	CIRCUIT BOARD A	
	TXANP03VJN7	CIRCUIT BOARD K	
	TXANPPQVJN7	CIRCUIT BOARD P/Q	

15.2. PT-L520U/E

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
G1	D4CDH5030001	THERMISTER	
K1	K0AACE000015	AC SWITCH	⚠
K2	K1HB15FA0001	VGA CABLE	
K3	K2AH3B000016	AC INLET	⚠
K4	K2CG3FZ00008	POWER CORD	⚠ PT-L520U
K4-1	K2CM3FZ00001	POWER CORD(continental)	⚠ PT-L520E
K4-2	K2CT3FZ00001	POWER CORD(U.K)	⚠ PT-L520E
K5	K2KA2FA00001	AV CABLE	
K6	L0AA04C00002	SPEAKER	
K7	L5BDAXN00025	LIQUID CRYSTAL DISPLAY(R)	L3P09S-21G01 / (RED MARK)
K8	L5BDAXN00026	LIQUID CRYSTAL DISPLAY(G)	L3P09S-21G01 / (NO MARK)
K9	L5BDAXN00027	LIQUID CRYSTAL DISPLAY(B)	L3P09S-21G01 / (BLUE MARK)
K7	L5BDAXN00028	LIQUID CRYSTAL DISPLAY(R)	L3P09S-22G01 / (RED MARK)
K8	L5BDAXN00029	LIQUID CRYSTAL DISPLAY(G)	L3P09S-22G01 / (NO MARK)
K9	L5BDAXN00030	LIQUID CRYSTAL DISPLAY(B)	L3P09S-22G01 / (BLUE MARK)
K10	L6FAKDEH0002	FAN	⚠
K11	L6FAMEGH0006	VENTILATION FAN	⚠
K12	L6FCJC9H0001	COOL FAN (FOR LCD-B)	⚠
K13	L6FCKCAH0001	PBS FAN	⚠
K14	L6FCLFCH0001	FAN	⚠
K15	N2QAEA000008	REMOTE CONTROLLER	⚠
K16	TBLB3073	ADJUST LEG	
K17	TBLG3040	SIDE FOOT	
K18	TBLG3042	RUBBER LEG (REAR)	
G2	TBME683	MODEL NAME PLATE	PT-L520U
	TBME684	MODEL NAME PLATE	PT-L520E
G3	TBME695	MODEL NO. LABEL	PT-L520U
	TBME696	MODEL NO. LABEL	PT-L520E
K19	TBXA35701	CONTROL BUTTON	
K20	TEEC5074	DUCT	
K21	TEEC5075	DUCT	
K22	TEEC5076	OPTICAL DUCT	
K23	TEEC5077	PBS DUCT	
G6	THEC035N	SCREW	
G7	THEC053U	SCREW	
G8	THEC053U	SCREW	
G9	THEC053U	SCREW	
K25	TKGF0064	LENS	
K26	TKKL5228	LENS COVER	
K27	TKNE047	FILTER	
K28	TKRA30101	HANDLE	
K29	TKZF5020	TERMINAL METAL	
K30	TKZJ5036	FAN METAL	
K31	TKZJ5037	FAN METAL	
K32	TKZX5160	RECTIFICATION BOARD	
G10	TMKG336	RUBBER SEAL	
G11	TMKG337	SPONGE(1)	

Ref. No.	Part No.	Part Name & Description	Remarks
G12	TMKG338	SPONGE(2)	
G14	TMKX100	WASHER	
G15	TMKX264-1	SHEET	
K33	TMKX391	SHEET	
K34	TMKX392	SHEET	
K35	TMKX419	INSULATION SHEET(POWER)	
G16	TMKX420	INSULATION SHEET(Q-PCB)	
G17	TMKX429	HANDLE SHIELD SHEET	
K36	TMMA035	FAN ADAPTER	
G18	TMME090	SPACER	
G19	TMME159	SPACER	
G20	TMMX024	SHEET	
K37	TMMX083	VENTILATION COVER	
G21	TMXC013	TEMP FUSE METAL	
K38	TMZX5025	FILTER COVER	
G22	TPCB24508	CARTON	PT-L520U
	TPCB24509	CARTON	PT-L520E
G23	TPDF0818	ACCESSORY CARTON	
G24	TPDF0872	CUSHION	
G25	TPDF0873	CARRING CASE CUSHION	
G26	TPEH124	SET COVER	
G27	TPEP007	CARRING CASE	
G28	TQB817002-1	SAFETY SHEET	PT-L520U
G29	TQBJ0104-1	INSTRUCTION BOOK	⚠ PT-L520U
	TQBJ0105-1	INSTRUCTION BOOK	⚠ PT-L520E
G30	TQD1712010	LABEL	
G31	TQDJ18004	WARRANTY CARD(CANADA)	PT-L520U
G32	TQDJ18015	WARRANTY CARD (USA)	PT-L520U
G33	TQF86202	LABEL	
K39	TSEX8005	SWITCH	⚠ K0ADBF000007
K40	TSK1018	FERRITE CORE	J0KG00000013
G34	TSXL193	FLEX CABLE	
K41	TTFA0117	TERMINAL COVER	
K42	TUCC5800	POWER BOX 1	
K43	TUCC5802	PLATE	
K44	TUCC5804	POWER BOX 2	
G35	TUCC5829	SHIELD BOARD(K-PCB)	
G36	TUCJ5439	RADIATOR PLATE	
K45	TUCX5105	EARTH METAL	
K46	TUCX5106	EARTH METAL	
K47	TUWC036	CIRCUIT BOARD K METAL	
K48	TUXA148	REINFORCEMENT METAL	
G37	TUXA153	METAL 1 (HANDLE)	
G38	TUXA154	METAL 2 (HANDLE)	
K50	TXFKK01VJN7	LAMP COVER	
G39	TXJ/K1VJN7	TEMP FUSE WITH WIRE	⚠
K51	TXZKG02VJN7	POLARIZING PLATE/IN(R)	
K52	TXZKG03VJN7	POLARIZING PLATE/IN(G)	
K53	TXZKG04VJN7	POLARIZING PLATE/IN(B)	
K54	VGB0531	PANASONIC MARK	
K55	XSB3+8FN	SCREW	
K56	XSN4+10	SCREW	
G40	XSS2+6FZ	SCREW	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
G41	XTB4+20J	SCREW	
G42	XTBT969Z	SCREW	
G43	XTN3+6G	SCREW	
G44	XTV3+10G	SCREW	
G45	XTV3+12A	SCREW	
G46	XTW3+8P	TAPPING SCREW	
G47	XYC2+BG6	SCREW	
G48	XYN2+F10	SCREW	
G49	XYN3+F6	SCREW	
G50	XYN3+J10	SCREW	
G51	XYN3+J35	SCREW	
K57	THEL034	SCREW	
G52	XYN3+J8	SCREW	
G53	XYN4+E8	SCREW	
G54	XYN4+F25	SCREW	
G55	XYN4+J10	SCREW	
G56	XZBT6532	POLY BAG	PT-L520U
K58	TXFKF98PQAZ	UPPER COVER	
K59	TXFKF99PQBZ	BOTTOM COVER	PT-L520U
	TXFKF99PQFZ	BOTTOM COVER	PT-L520E
K60	TXFGP99VJN8	POLARIZING PLATE/OUT(R)	
K61	TXFGP98VJN8	POLARIZING PLATE/OUT(G)	
K62	TXFGP97VJN8	POLARIZING PLATE/OUT(B)	
K63	TXFEC99VJN7	ANALYSIS BLOCK	
K64	TXFEN99VJN8	OPTICAL BLOCK	
		[INTEGRATED CIRCUIT]	
IC1001	C0FBAD000067	I.C	
IC1003	BA7078AF	I.C	
IC1004	C0JBAR000327	I.C	
IC1005	C1AB00001524	I.C	
IC1006	C3ABPJ000035	I.C	
IC1007	C1ZBZ0001965	I.C	
IC1009	C0ZBZ0000692	I.C	
IC1010	C2GBC0000135	I.C	
IC1011	TVRJ751	I.C	
IC1012	TC74LCX574FT	I.C	
IC1013	TC7SH32FTL	I.C	C0JBAE000146
IC1014	C0JBAZ000855	I.C	
IC1016	M51957BFP	I.C	C0EBB0000024
IC1017	C3EBJC000037	I.C	
IC1018	C1GB00000041	I.C	
IC1020	C3EBCC000045	I.C	
IC1021	C3EBCC000045	I.C	
IC1022	C0ABGB000016	I.C	
IC1023	C0ABGB000016	I.C	
IC1024	C0ABGB000016	I.C	
IC1026	C1BB00000646	I.C	
IC1027	C3BBFC000127	I.C	
IC1028	C0JBAR000308	I.C	
IC1029	C0DBEZE00002	I.C	
IC1030	C0DBEZE00002	I.C	
IC1031	C0DBEZE00002	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1032	C0JBAZ001264	I.C	
IC1033	C1AB00001556	I.C	
IC1034	C1AB00001555	I.C	
IC1035	M52755FP	I.C	C1AB00000789
IC1036	C0JBAZ001264	I.C	
IC1040	C0CBADD00009	I.C	
IC1041	C0CBADD00009	I.C	
IC1042	C0CBABD00015	I.C	
IC1043	PQ07VZ012ZP	I.C	C0DBEZG00004
IC1044	C0CBAAD00008	I.C	
IC1045	C0CBABD00017	I.C	
IC1046	C0CBABD00015	I.C	
IC1050	C1AB00001516	I.C	
IC1051	C1AB00001523	I.C	
IC1052	C1AB00001523	I.C	
IC1053	C1AB00001523	I.C	
IC1057	C1AB00001522	I.C	
IC1058	C1AB00001522	I.C	
IC1059	C0FBBD000065	I.C	
IC1060	M62399FP	I.C	C0FBBD000088
IC1061	AN78L12M	I.C	
IC1062	AN78L05M	I.C	
IC1064	C0JBAR000327	I.C	
IC1065	NJM2172V	I.C	C0ZBZ0000269
IC1070	C1CB00001014	I.C	
IC1071	C0JBAZ000855	I.C	
IC1073	C2BBCB000013	I.C	
IC1081	C0JBAB000003	I.C	
IC1082	C0JBAB000004	I.C	
IC9201	C0DBZZZ00046	I.C	
IC9202	C0DBEZE00002	I.C	
IC9203	C0BBAB000010	I.C	
IC9601	C0ZAZ0000077	I.C	
IC9701	AN78L09M	I.C	
IC9702	AN78L05M	I.C	
IC9703	C0DBALC00005	I.C	
[TRANSISTORS]			
Q1001	2SD601AR	TRANSISTOR	2SD0601AR
Q1002	2SD601AR	TRANSISTOR	2SD0601AR
Q1003	2SD601AR	TRANSISTOR	2SD0601AR
Q1004	2SD601AR	TRANSISTOR	2SD0601AR
Q1005	2SD601AR	TRANSISTOR	2SD0601AR
Q1006	2SD601AR	TRANSISTOR	2SD0601AR
Q1007	2SD601AR	TRANSISTOR	2SD0601AR
Q1008	2SD601AR	TRANSISTOR	2SD0601AR
Q1009	2SB709A	TRANSISTOR	2SB0709A
Q1010	2SB709A	TRANSISTOR	2SB0709A
Q1011	2SD601AR	TRANSISTOR	2SD0601AR
Q1012	B1ABBB000032	TRANSISTOR	
Q1013	B1ABBB000032	TRANSISTOR	
Q1014	B1ABBB000032	TRANSISTOR	
Q1015	2SD601AR	TRANSISTOR	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Remarks
Q1019	B1ABBB000032	TRANSISTOR	
Q1020	2SD601AR	TRANSISTOR	2SD0601AR
Q1021	2SB709A	TRANSISTOR	2SB0709A
Q1022	B1ABBB000032	TRANSISTOR	
Q1023	B1ABBB000032	TRANSISTOR	
Q1024	2SD601AR	TRANSISTOR	2SD0601AR
Q1025	2SD601AR	TRANSISTOR	2SD0601AR
Q1026	2SB709A	TRANSISTOR	2SB0709A
Q1027	2SD601AR	TRANSISTOR	2SD0601AR
Q1028	2SB709A	TRANSISTOR	2SB0709A
Q1029	2SD601AR	TRANSISTOR	2SD0601AR
Q1030	2SD601AR	TRANSISTOR	2SD0601AR
Q1031	2SD601AR	TRANSISTOR	2SD0601AR
Q1032	2SB709A	TRANSISTOR	2SB0709A
Q1033	2SD601AR	TRANSISTOR	2SD0601AR
Q1034	2SB709A	TRANSISTOR	2SB0709A
Q1035	2SD601AR	TRANSISTOR	2SD0601AR
Q1036	2SB709A	TRANSISTOR	2SB0709A
Q1037	2SD601AR	TRANSISTOR	2SD0601AR
Q1039	2SK620	FET	2SK0620
Q1040	2SK620	FET	2SK0620
Q1041	2SD601AR	TRANSISTOR	2SD0601AR
Q1042	2SD601AR	TRANSISTOR	2SD0601AR
Q1043	2SD601AR	TRANSISTOR	2SD0601AR
Q1044	2SK620	FET	2SK0620
Q1045	2SK620	FET	2SK0620
Q1049	2SD601AR	TRANSISTOR	2SD0601AR
Q1057	2SB709A	TRANSISTOR	2SB0709A
Q1058	2SB709A	TRANSISTOR	2SB0709A
Q1065	2SD601AR	TRANSISTOR	2SD0601AR
Q1073	2SD601AR	TRANSISTOR	2SD0601AR
Q1074	2SD601AR	TRANSISTOR	2SD0601AR
Q1075	2SB709A	TRANSISTOR	2SB0709A
Q1600	2SB709A	TRANSISTOR	2SB0709A
Q1601	2SB709A	TRANSISTOR	2SB0709A
Q1602	2SB709A	TRANSISTOR	2SB0709A
Q1603	2SD601AR	TRANSISTOR	2SD0601AR
Q1604	2SD601AR	TRANSISTOR	2SD0601AR
Q1605	2SD601AR	TRANSISTOR	2SD0601AR
Q1606	2SD601AR	TRANSISTOR	2SD0601AR
Q1607	2SB709A	TRANSISTOR	2SB0709A
Q1608	2SD601AR	TRANSISTOR	2SD0601AR
Q1609	2SB709A	TRANSISTOR	2SB0709A
Q1610	2SD601AR	TRANSISTOR	2SD0601AR
Q1611	2SB709A	TRANSISTOR	2SB0709A
Q1612	2SD601AR	TRANSISTOR	2SD0601AR
Q1613	2SB709A	TRANSISTOR	2SB0709A
Q1614	2SD601AR	TRANSISTOR	2SD0601AR
Q1615	2SB709A	TRANSISTOR	2SB0709A
Q1616	2SD601AR	TRANSISTOR	2SD0601AR
Q1617	2SB709A	TRANSISTOR	2SB0709A
Q1821	2SB709A	TRANSISTOR	2SB0709A
Q1822	2SB709A	TRANSISTOR	2SB0709A
Q1823	2SD601AR	TRANSISTOR	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Remarks
Q1824	**2SD601AR**	**TRANSISTOR**	**2SD0601AR**
Q1825	**2SD601AR**	**TRANSISTOR**	**2SD0601AR**
Q9201	**B1DEGQ000017**	**TRANSISTOR**	
Q9202	**B1DEGQ000017**	**TRANSISTOR**	
Q9205	**2SD601AR**	**TRANSISTOR**	**2SD0601AR**
Q9206	**2SB709A**	**TRANSISTOR**	**2SB0709A**
Q9208	**2SD601AR**	**TRANSISTOR**	**2SD0601AR**
Q9601	**B1DEGQ000017**	**TRANSISTOR**	
Q9602	**B1DEGQ000017**	**TRANSISTOR**	
Q9606	**2SB710A**	**TRANSISTOR**	**2SB0710A**
Q9607	**2SB710A**	**TRANSISTOR**	**2SB0710A**
Q9608	**B1JACQ000002**	**TRANSISTOR**	
Q9609	**B1JACQ000002**	**TRANSISTOR**	
Q9610	**2SB710A**	**TRANSISTOR**	**2SB0710A**
Q9611	**2SB710A**	**TRANSISTOR**	**2SB0710A**
Q9612	**B1JACQ000002**	**TRANSISTOR**	
Q9613	**B1JACQ000002**	**TRANSISTOR**	
		[DIODES]	
D151	**S1VBA60**	**DIODE**	⚠
D1001	**D4B503390001**	**THERMISTOR**	
D1002	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1004	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1005	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1006	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1007	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1008	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1009	**MA3150M**	**DIODE**	**MAZ31500M**
D1010	**MA3150M**	**DIODE**	**MAZ31500M**
D1011	**MA3150M**	**DIODE**	**MAZ31500M**
D1012	**MA3150M**	**DIODE**	**MAZ31500M**
D1013	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1014	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1015	**MA157A**	**DIODE**	**MA3X157A**
D1016	**MA157A**	**DIODE**	**MA3X157A**
D1017	**MA157A**	**DIODE**	**MA3X157A**
D1018	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1019	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1020	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1021	**MA3056M**	**ZENER DIODE**	**MAZ30560M**
D1022	**MA157A**	**DIODE**	**MA3X157A**
D1023	**MA157A**	**DIODE**	**MA3X157A**
D1024	**MA157A**	**DIODE**	**MA3X157A**
D1025	**MA157A**	**DIODE**	**MA3X157A**
D1026	**MA157A**	**DIODE**	**MA3X157A**
D1027	**MA157A**	**DIODE**	**MA3X157A**
D1028	**MA157A**	**DIODE**	**MA3X157A**
D1031	**MA157A**	**DIODE**	**MA3X157A**
D1033	**MA728**	**DIODE**	**MA2J728**
D1035	**LNJ208R8ARA**	**LED**	
D1036	**LNJ208R8ARA**	**LED**	
D1037	**LNJ208R8ARA**	**LED**	
D1065	**D4B503390001**	**THERMISTOR**	

[illegible]	[illegible]	THERMISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
D1071	MA3100H	ZENER DIODE	MAZ31000H
D1072	MA3100H	ZENER DIODE	MAZ31000H
D1073	MA3100H	ZENER DIODE	MAZ31000H
D1074	MA3100H	ZENER DIODE	MAZ31000H
D1821	LNJ107W5ARA1	LED	
D1822	LNJ208R8ARA	LED	
D1823	LNJ208R8ARA	LED	
D1824	LNJ308G8TRA	LED	
D3001	MA157A	DIODE	MA3X157A
D9202	B2BAKR000006	DIODE	⚠
D9203	B3PAC0000035	DIODE	
D9207	M1FL20UF4063	DIODE	B0HCMM000009
D9208	MA720	DIODE	MA3X720
D9607	MA158	DIODE	MA3X158
D9610	MA158	DIODE	MA3X158
D9611	MA720	DIODE	MA3X720
D9613	MA158	DIODE	MA3X158
D9614	MA720	DIODE	MA3X720
D9616	MA158	DIODE	MA3X158
D9617	MA720	DIODE	MA3X720
D9619	MA720	DIODE	MA3X720
D9620	MA720	DIODE	MA3X720
D9621	MA720	DIODE	MA3X720
D9622	MA720	DIODE	MA3X720
D9623	MA720	DIODE	MA3X720
D9624	B0HCKP000002	DIODE	
D9625	B0HCKP000002	DIODE	
D9626	MA720	DIODE	MA3X720
D9627	MA720	DIODE	MA3X720
D9628	MA720	DIODE	MA3X720
D9629	MA720	DIODE	MA3X720
D9630	MA720	DIODE	MA3X720
D9631	B0HCKP000002	DIODE	
D9632	B0HCKP000002	DIODE	
[COILS]			
L1001	EXCML16A270	BEAD CORE	
L1002	EXCML16A270	BEAD CORE	
L1003	ELJFA470JF	COIL	
L1004	ELJFA470JF	COIL	
L1006	ELJFA270JF	COIL	
L1007	EXCML16A270	BEAD CORE	
L1008	EXCML16A270	BEAD CORE	
L1009	EXCML16A270	BEAD CORE	
L1010	EXCML16A270	BEAD CORE	
L1011	EXCML16A270	BEAD CORE	
L1012	ELJFA270JF	COIL	
L1013	EXCML16A270	BEAD CORE	
L1015	EXCML16A270	BEAD CORE	
L1016	EXCML16A270	BEAD CORE	
L1017	EXCML16A270	BEAD CORE	
L1020	EXCML16A270	BEAD CORE	
L1023	EXCML16A270	BEAD CORE	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
L1024	ELJFA470JF	COIL	
L1025	EXCML16A270	BEAD CORE	
L1026	EXCML16A270	BEAD CORE	
L1027	ELJFA6R8JB	CHIP COIL	
L1028	ELJFA470JF	COIL	
L1029	EXCML16A270	BEAD CORE	
L1030	EXCML16A270	BEAD CORE	
L1034	EXCML16A270	BEAD CORE	
L1035	EXCML16A270	BEAD CORE	
L1036	EXCML16A270	BEAD CORE	
L1037	EXCML16A270	BEAD CORE	
L1042	EXCML16A270	BEAD CORE	
L1061	ERJ6GEY0R00	M 0 OHM,J,1/10W	
L1700	EXCML16A270	BEAD CORE	
L1701	EXCML16A270	BEAD CORE	
L1702	EXCML16A270	BEAD CORE	
L1703	EXCML16A270	BEAD CORE	
L1704	EXCML16A270	BEAD CORE	
L1705	EXCML16A270	BEAD CORE	
L1707	EXCML16A270	BEAD CORE	
L1708	EXCML16A270	BEAD CORE	
L1709	EXCML16A270	BEAD CORE	
L1710	EXCML16A270	BEAD CORE	
L1711	EXCML16A270	BEAD CORE	
L1712	EXCML16A270	BEAD CORE	
L1713	EXCML16A270	BEAD CORE	
LC1002	ELKE471FA	EMI FILTER	
LC1003	ELKE471FA	EMI FILTER	
LC1004	ELKE471FA	EMI FILTER	
LC1005	ELKE471FA	EMI FILTER	
LC1006	ELKE220FA	NOISE FILTER	
LC1007	ELKE220FA	NOISE FILTER	
LC1008	ELKE220FA	NOISE FILTER	
LC1009	ELKE220FA	NOISE FILTER	
LC1010	ELKE220FA	NOISE FILTER	
LC1011	ELKE220FA	NOISE FILTER	
LC1036	ELKE471FA	EMI FILTER	
LC1037	ELKE471FA	EMI FILTER	
		[RESISTORS]	
R134	ERX2SJ2R2	M 2.2 OHM,J,2W	
R1001	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1002	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1003	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1005	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1008	EXB38V220J	RESISTOR ARRAY	
R1009	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1010	EXB38V220J	RESISTOR ARRAY	
R1011	EXB38V220J	RESISTOR ARRAY	
R1012	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1013	EXB38V220J	RESISTOR ARRAY	
R1015	EXB38V220J	RESISTOR ARRAY	
R1016	ERJ3GEYJ150	M 15 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1017	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1018	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1020	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1027	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1028	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1030	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1031	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1032	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1033	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1034	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1035	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1036	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1038	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1039	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1041	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1042	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1043	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1044	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1051	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1052	ERJ3GEYJ273	M 27KOHM,J,1/16W	
R1053	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R1055	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1056	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1057	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1065	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1066	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1067	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1068	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1069	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1071	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1074	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1075	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1076	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1078	ERJ3GEYJ821	M 820 OHM,J,1/16W	
R1079	ERJ3GEYJ821	M 820 OHM,J,1/16W	
R1080	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1081	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1082	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1083	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1084	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1085	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1086	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1087	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1088	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1104	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1105	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1106	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1107	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1108	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1109	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1110	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1111	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1112	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1113	ERJ6ENF75R0	M 75 OHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1114	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1115	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1116	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1117	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1121	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1122	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1123	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1124	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1125	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1129	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1130	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1131	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1132	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1133	ERJ3GEYJ274	M 270 OHM,J,1/16W	
R1134	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1136	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1137	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1138	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1139	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1140	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1142	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1145	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1146	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1147	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1148	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1149	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1150	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1151	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1152	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1153	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1154	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1155	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1156	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1157	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1158	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1159	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1160	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1161	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1162	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1163	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1164	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1165	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1166	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1167	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1168	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1172	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1173	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1174	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1175	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1176	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1177	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1181	ERJ3GEYJ471	M 470 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1182	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1183	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1184	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1185	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1186	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1187	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1188	ERJ6ENF2001	M 2KOHM, 1/10W	
R1189	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1190	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1191	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1192	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1193	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1194	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1195	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1196	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1197	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1198	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1199	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1200	ERJ6GEYJ271	M 270 OHM,J,1/10W	
R1201	ERJ6ENF2700	M 270 OHM, 1/10W	
R1202	ERJ3GEYJ150	M 15 OHM,J,1/16W	
R1203	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1204	ERJ6ENF2001	M 2KOHM, 1/10W	
R1205	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1206	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1207	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1208	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1209	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1210	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1211	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1212	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1213	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1214	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1215	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1216	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1217	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1218	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1219	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1220	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1222	ERJ6ENF2700	M 270 OHM, 1/10W	
R1223	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1224	ERJ6ENF2001	M 2KOHM, 1/10W	
R1225	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1227	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1228	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1229	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1230	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1231	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1232	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1233	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1234	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1235	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1236	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1238	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1239	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1240	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1241	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1242	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1247	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1248	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1249	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1250	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1251	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1252	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1253	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1254	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1255	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1256	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1257	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1258	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1259	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1261	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1263	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1264	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1265	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1267	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1268	ERJ3GEYJ680	M 68 OHM,J,1/16W	ERJ3GEYJ680V
R1270	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1271	EXB38V560J	RESISTOR ARRAY	
R1272	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1273	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1274	EXB38V560J	RESISTOR ARRAY	
R1276	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1277	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1278	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1279	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1280	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R1288	EXB38V560J	RESISTOR ARRAY	
R1289	EXB38V560J	RESISTOR ARRAY	
R1290	EXB38V560J	RESISTOR ARRAY	
R1291	EXB38V560J	RESISTOR ARRAY	
R1292	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1293	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1294	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1295	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1296	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1297	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1303	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1304	EXB38V220J	RESISTOR ARRAY	
R1305	EXB38V220J	RESISTOR ARRAY	
R1306	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1307	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1308	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1309	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1330	EXB38V220J	RESISTOR ARRAY	
R1331	ERJ6GEYJ331	M 330 OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1332	ERJ6ENF1001	M 1KOHM, 1/10W	
R1333	ERJ6ENF1001	M 1KOHM, 1/10W	
R1334	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1335	EXB38V560J	RESISTOR ARRAY	
R1336	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1337	EXB38V560J	RESISTOR ARRAY	
R1338	EXB38V560J	RESISTOR ARRAY	
R1339	EXB38V560J	RESISTOR ARRAY	
R1340	EXB38V560J	RESISTOR ARRAY	
R1341	EXB38V560J	RESISTOR ARRAY	
R1342	EXB38V560J	RESISTOR ARRAY	
R1345	EXB38V560J	RESISTOR ARRAY	
R1346	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1347	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1353	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1354	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1356	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1357	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1359	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1360	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1361	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1362	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1366	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1367	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1368	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1369	ERJ6ENF1243	M 124KOHM, 1/10W	
R1373	EXB38V220J	RESISTOR ARRAY	
R1374	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1375	EXB38V220J	RESISTOR ARRAY	
R1380	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1381	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1382	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1383	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1384	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1385	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1386	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1387	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1388	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1389	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1393	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1394	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1395	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1399	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1400	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1401	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1402	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1403	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1404	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1405	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1406	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1407	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1409	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1411	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1415	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1416	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1417	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1420	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1421	EXB38V103J	RESISTOR ARRAY	
R1423	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1424	EXB38V220J	RESISTOR ARRAY	
R1425	EXB38V220J	RESISTOR ARRAY	
R1426	EXB38V220J	RESISTOR ARRAY	
R1427	EXB38V220J	RESISTOR ARRAY	
R1428	EXB38V220J	RESISTOR ARRAY	
R1429	EXB38V220J	RESISTOR ARRAY	
R1431	EXB38V103J	RESISTOR ARRAY	
R1432	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1433	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1435	EXB38V103J	RESISTOR ARRAY	
R1436	EXB38V220J	RESISTOR ARRAY	
R1439	EXB38V103J	RESISTOR ARRAY	
R1440	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1441	EXB38V103J	RESISTOR ARRAY	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1449	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1450	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1451	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1452	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1453	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1454	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1455	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1456	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1457	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1458	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1459	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1460	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1461	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1462	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1463	EXB38V220J	RESISTOR ARRAY	
R1464	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1466	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1467	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1468	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1470	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1472	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1473	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1475	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1476	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1477	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1479	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1480	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1481	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1482	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1483	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1491	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1492	EXB38V220J	RESISTOR ARRAY	
R1493	EXB38V220J	RESISTOR ARRAY	
R1494	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1496	EXB38V220J	RESISTOR ARRAY	
R1497	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1500	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1501	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1502	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1503	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1504	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1508	EXB38VR000	RESISTOR ARRAY	
R1509	EXB38V220J	RESISTOR ARRAY	
R1510	EXB38V102J	RESISTOR ARRAY	
R1511	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1512	EXB38VR000	RESISTOR ARRAY	
R1513	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1516	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1517	EXB38V220J	RESISTOR ARRAY	
R1518	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1519	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1520	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1521	EXB38V220J	RESISTOR ARRAY	
R1522	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R1523	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1524	EXB38V220J	RESISTOR ARRAY	
R1525	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1526	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1527	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1528	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1529	EXB38V220J	RESISTOR ARRAY	
R1531	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1532	EXB38V220J	RESISTOR ARRAY	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1536	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1537	EXB38V220J	RESISTOR ARRAY	
R1538	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	EXB38V220J	RESISTOR ARRAY	
R1541	EXB38V220J	RESISTOR ARRAY	
R1542	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1543	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1544	EXB38V220J	RESISTOR ARRAY	
R1545	EXB38V220J	RESISTOR ARRAY	
R1546	EXB38V220J	RESISTOR ARRAY	
R1547	EXB38V220J	RESISTOR ARRAY	
R1548	EXB38V220J	RESISTOR ARRAY	
R1549	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1550	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1551	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1552	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1553	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1554	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1555	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1556	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1558	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1561	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1577	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1578	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1579	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1580	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1581	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1582	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1659	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1660	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1661	ERJ6ENF2700	M 270 OHM, 1/10W	
R1662	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1712	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1713	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1714	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1715	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1716	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1717	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1718	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1719	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1720	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1721	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1722	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1723	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1724	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1725	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1726	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1727	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1728	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1729	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1730	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1731	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1732	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1733	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1734	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1735	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1736	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1737	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1738	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1739	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1740	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1741	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1742	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1743	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1744	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1745	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1746	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1747	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1748	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1749	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1750	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1751	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1752	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1753	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1754	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1755	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1756	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1757	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1758	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1759	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1760	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1761	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1762	**ERJ6GEYJ3R3**	**M 3.3OHM,J,1/10W**	
R1763	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1764	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1765	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1766	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1767	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1768	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1769	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1770	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1771	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1772	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1773	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1774	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1775	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1776	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1777	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1778	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1779	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1780	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1781	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1782	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1783	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1784	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1785	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1786	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1787	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1788	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1789	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1790	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1791	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1792	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1793	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1794	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1795	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1796	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1797	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1798	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1799	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1800	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1801	**ERJ3GEYJ220**	**M 22 OHM,J,1/16W**	
R1811	**ERJ3GEYJ124**	**M 120KOHM,J,1/16W**	
R1812	**ERJ3GEYJ154**	**M 150 OHM,J,1/16W**	
R1813	**ERJ3GEYJ124**	**M 120KOHM,J,1/16W**	
R1814	**ERJ3GEYJ154**	**M 150 OHM,J,1/16W**	
R1815	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	
R1816	**ERJ3GEYJ102**	**M 1K OHM,J,1/16W**	
R1817	**ERJ3GEYJ124**	**M 120KOHM,J,1/16W**	

Ref. No.	Part No.	Part Name & Description	Remarks
R1818	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1819	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1820	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1821	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1822	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1823	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1824	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1825	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1826	ERJ3GEYJ393	M 39K OHM,J,1/16W	
R1827	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1828	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1829	ERJ3GEYJ393	M 39K OHM,J,1/16W	
R1830	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1831	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1832	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1833	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1834	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1835	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1836	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1837	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1838	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1839	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1840	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1841	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1842	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1843	ERJ1TYJ470	RESISTOR	
R1844	ERJ1TYJ470	RESISTOR	
R1845	ERJ1TYJ470	RESISTOR	
R1846	ERJ1TYJ470	RESISTOR	
R1847	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1848	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1849	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1850	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1851	ERJ1TYJ470	RESISTOR	
R1854	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1856	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1861	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1862	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R1863	ERJ6ENF1001	M 1KOHM, 1/10W	
R1864	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1865	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1866	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R1867	ERJ6ENF3302	M 33KOHM, 1/10W	
R1868	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1869	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R1870	ERJ6ENF1001	M 1KOHM, 1/10W	
R1871	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1872	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1873	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R1874	ERJ6ENF3302	M 33KOHM, 1/10W	
R1881	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1882	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1883	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1884	ERJ3GEYJ331	M 330 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1885	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1966	ERDS2TJ105	C 1M OHM,J, 1/4W	
R3001	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R3002	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R9231	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R9705	ERJ6GEYJ100	M 10 OHM,J,1/10W	
[CAPACITORS]			
C1002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1008	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1009	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1010	EEVHB1C101	E 100UF, 16V	
C1011	EEVHB0J330	E 33UF, 6.3V	
C1012	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1013	ECJ1XC1H102J	C 1000PF, J, 50V	
C1015	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1016	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1023	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1025	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1030	ECJ2XF1C474Z	C 0.47UF, Z, 16V	
C1031	ECJ2XF1C474Z	C 0.47UF, Z, 16V	
C1032	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1033	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1034	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1035	ECJ1XC1H080C	C 8PF, 50V	
C1036	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1037	ECUV1C223KBV	C 0.022UF, 16V	ECJ1VB1C223K
C1038	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1039	ECJ3XB0J106M	C 10UF, 6.3V	
C1040	ECJ3XB0J106M	C 10UF, 6.3V	
C1041	ECJ3XB0J106M	C 10UF, 6.3V	
C1042	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1043	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1044	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1045	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1046	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1047	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1048	ECUX1H120JCV	C 12PF, 50V	
C1049	ECUX1H120JCV	C 12PF, 50V	
C1051	ECJ1XC1H220J	C 22PF, J, 50V	
C1052	ECJ1XC1H220J	C 22PF, J, 50V	
C1053	ECJ1XF1A105Z	C 1UF, 16V	
C1055	ECJ1XF1A105Z	C 1UF, 16V	
C1059	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1060	ECJ1XC1H681J	C 680PF, J, 50V	
C1062	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1063	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1064	ECJ1XF1A105Z	C 1UF, 16V	
C1065	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1066	ECJ3XB0J106M	C 10UF, 6.3V	
C1067	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1068	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1069	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P

Ref. No.	Part No.	Part Name & Description	Remarks
C1070	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1071	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1072	ECJ2XB1H103K	C 0.01UF, K, 50V	
C1073	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1074	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1075	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1076	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1077	EEVHB0J330	E 33UF, 6.3V	
C1078	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1079	EEVHB0J330	E 33UF, 6.3V	
C1080	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1081	EEVHB0J330	E 33UF, 6.3V	
C1082	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1083	EEVHB0J330	E 33UF, 6.3V	
C1084	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1085	EEVHB0J330	E 33UF, 6.3V	
C1086	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1087	EEVHB0J330	E 33UF, 6.3V	
C1127	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1128	EEVHB1A221	E 220UF, 10V	
C1129	EEVHB1A221	E 220UF, 10V	
C1130	EEVHB1A221	E 220UF, 10V	
C1131	ECJ1XF1A105Z	C 1UF, 16V	
C1132	ECJ1XF1A105Z	C 1UF, 16V	
C1133	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1134	EEVHB0J330	E 33UF, 6.3V	
C1135	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1136	EEVHB0J330	E 33UF, 6.3V	
C1137	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1138	EEVHB0J330	E 33UF, 6.3V	
C1139	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1140	EEVHB0J330	E 33UF, 6.3V	
C1141	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1142	EEVHB0J330	E 33UF, 6.3V	
C1143	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1144	EEVHB0J330	E 33UF, 6.3V	
C1146	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1147	ECJ1XF1A105Z	C 1UF, 16V	
C1148	ECJ1XF1A105Z	C 1UF, 16V	
C1149	ECJ1XF1A105Z	C 1UF, 16V	
C1150	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1152	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1153	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1155	ECJ1XC1H102J	C 1000PF, J, 50V	
C1156	EEVHB1E330	E 33UF, 25V	
C1157	ECJ1XF1A105Z	C 1UF, 16V	
C1158	ECJ1XC1H102J	C 1000PF, J, 50V	
C1159	ECJ1XF1A105Z	C 1UF, 16V	
C1160	ECJ1XF1A105Z	C 1UF, 16V	
C1161	EEVHP1A100	E 10UF, 10V	
C1162	EEVHP1A100	E 10UF, 10V	
C1164	ECJ1XC1H102J	C 1000PF, J, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1165	EEVHB1E330	E 33UF, 25V	
C1166	EEVHP1A100	E 10UF, 10V	
C1167	EEVHP1A100	E 10UF, 10V	
C1168	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1169	ECJ1XC1H102J	C 1000PF, J, 50V	
C1170	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1171	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1172	EEVHB1E330	E 33UF, 25V	
C1173	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1174	EEVHB1A330	E 33UF, 10V	
C1175	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1176	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1177	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1178	EEVHB0J470	E 47UF, 6.3V	
C1179	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1180	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1181	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1182	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1183	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1184	ECJ1XF1A105Z	C 1UF, 16V	
C1185	EEVHB0J470	E 47UF, 6.3V	
C1186	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1187	ECJ1XF1A105Z	C 1UF, 16V	
C1188	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1189	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1190	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1191	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1192	ECJ1XB1H102K	C 1000PF, K, 50V	
C1193	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1194	ECJ1XB1H102K	C 1000PF, K, 50V	
C1195	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1196	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1197	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1198	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1201	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1205	ECJ1XF1A105Z	C 1UF, 16V	
C1206	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1207	ECJ1XB1C473K	C 0.047UF,K, 50V	
C1208	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1210	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1211	ECJ1XF1C474Z	C 0.47UF, 16V	
C1212	ECJ1XF1A105Z	C 1UF, 16V	
C1213	ECJ1XF1A105Z	C 1UF, 16V	
C1214	ECUX1H392KBV	C 3900PF, K. 50V	
C1215	ECJ1XB1C393K	C 0.039UF, 16V	
C1216	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1218	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1219	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1220	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1221	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1222	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1223	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1224	ECJ1XC1H331J	C 330PF, J, 50V	
C1225	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1226	ECJ1XF1A105Z	C 1UF, 16V	
C1227	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1228	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1229	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1232	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1233	ECJ1XC1H150J	C 15PF, J, 50V	
C1234	ECJ1XC1H150J	C 15PF, J, 50V	
C1235	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1242	EEVHB0J470	E 47UF, 6.3V	
C1243	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1244	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1245	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1246	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1247	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1248	EEVHB0G101	E 100UF, 4V	
C1249	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1250	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1251	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1252	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1253	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1255	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1257	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1258	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1260	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1261	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1265	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1266	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1267	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1268	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1269	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1270	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1271	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1272	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1273	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1274	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1275	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1276	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1277	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1278	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1279	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1280	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1281	ECJ1XF1A105Z	C 1UF, 16V	
C1282	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1283	ECJ1XB1C473K	C0.047UF, K, 16V	
C1284	ECJ1XB1C473K	C0.047UF, K, 16V	
C1286	ECJ1XF1A105Z	C 1UF, 16V	
C1287	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1288	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1289	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1290	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1291	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1292	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1293	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1294	**ECJ1XC1H101J**	**C 100PF, J, 50V**	
C1295	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1296	**ECJ2XC1H471J**	**C 470PF, J, 50V**	
C1297	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1299	**ECJ1XC1H220J**	**C 22PF, J, 50V**	
C1300	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1301	**ECJ1XC1H220J**	**C 22PF, J, 50V**	
C1302	**EEVHB0J470**	**E 47UF, 6.3V**	
C1303	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1304	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1305	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1306	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1307	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1308	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1309	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1310	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1311	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1312	**EEVHB0G101**	**E 100UF, 4V**	
C1313	**ECJ2XF1C225Z**	**C 2.2UF, Z, 16V**	
C1314	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1315	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1316	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1317	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1318	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1319	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1320	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1322	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1323	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1324	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1325	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1326	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1327	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1328	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1329	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1330	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1331	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1332	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1333	**EEVHB0G101**	**E 100UF, 4V**	
C1337	**EEVHB0J470**	**E 47UF, 6.3V**	
C1338	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1339	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1340	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1341	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1342	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1343	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1344	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1345	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1346	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	
C1347	**ECJ1XF1C104Z**	**C 0.1UF, Z, 16V**	

Ref. No.	Part No.	Part Name & Description	Remarks
C1348	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1349	EEVHB0J470	E 47UF, 6.3V	
C1350	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1351	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1352	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1353	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1355	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1356	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1357	EEVHB1E4R7	E 4.7UF, 25V	
C1358	EEVHB1E4R7	E 4.7UF, 25V	
C1359	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1360	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1361	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1362	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1363	EEVHB1A330	E 33UF, 10V	
C1364	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1365	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1366	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1367	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1368	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1369	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1370	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1371	EEVHB1E4R7	E 4.7UF, 25V	
C1372	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1373	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1393	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1403	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1406	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1451	EEVHB0J330	E 33UF, 6.3V	
C1464	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1465	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1466	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1467	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1478	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1479	ECA0JHG471	E 470UF, 6.3V	
C1485	EEVHB1C220	CAPACITOR	
C1490	EEVHB1C220	CAPACITOR	
C1499	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1501	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1502	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1503	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1504	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1505	EEVHB1A330	E 33UF, 10V	
C1506	ECJ1XF1A105Z	C 1UF, 16V	
C1507	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1508	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1509	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1510	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1511	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1512	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1513	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1514	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1515	EEVHB0J330	E 33UF, 6.3V	
C1516	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

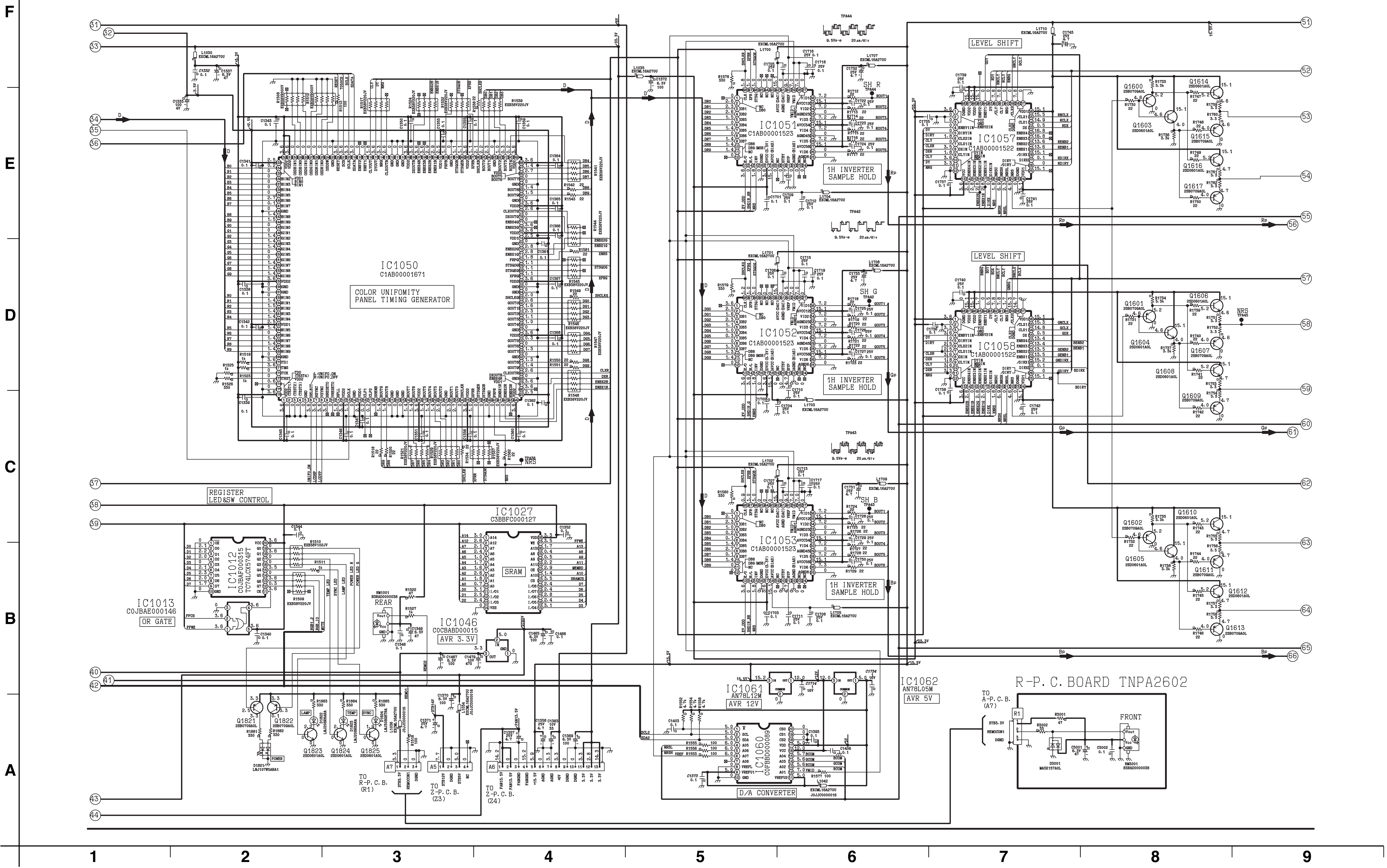
Ref. No.	Part No.	Part Name & Description	Remarks
C1517	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1701	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1702	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1703	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1704	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1705	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1706	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1707	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1708	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1709	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1710	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1711	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1712	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1713	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1714	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1715	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1716	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1717	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1718	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1719	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1722	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1723	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1724	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1725	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1726	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1727	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1728	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1729	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1730	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1731	EEVHB1E4R7	E 4.7UF, 25V	
C1732	EEVHB1E4R7	E 4.7UF, 25V	
C1733	EEVHB1E4R7	E 4.7UF, 25V	
C1734	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1735	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1736	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1737	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1738	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1739	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1740	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1741	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1742	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1743	EEVHB1E4R7	E 4.7UF, 25V	
C1745	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1746	EEVHB1E330	E 33UF, 25V	
C1747	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1748	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1749	EEVHB1E330	E 33UF, 25V	
C1750	EEVHB1E330	E 33UF, 25V	
C1751	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1752	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1753	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1754	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1755	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1756	ECJ2XF1C105Z	C 1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1758	EEVHB1A101	E 100UF, 10V	
C1759	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1761	EEFUD0J101R	CAPACITOR	
C1762	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C3001	EEVHB0J470	E 47UF, 6.3V	
C3002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
		[OTHERS]	
A1	K1MN30B00087	30P CONNECTOR	
A2	K1MN30B00087	30P CONNECTOR	
A3	K1MN30B00087	30P CONNECTOR	
A4	TJSF43706	6P CONNECTOR	K1KA06B00096
A5	K1KA04B00007	4P CONNECTOR	
A6	K1KA13B00031	13P CONNECTOR	
A7	TJSF43703	3P CONNECTOR	K1KA03B00098
A9	K1KA02B00051	2P CONNECTOR	
A11	K1KA02B00051	2P CONNECTOR	
A12	K1KA02B00051	2P CONNECTOR	
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A16	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	TJS6A8780	3P CONNECTOR	K1KA03B00006
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	TJS6A8780	3P CONNECTOR	K1KA03B00006
F101	K5Y632B00001	FUSE	⚠
F102	K5Y632B00001	FUSE	⚠
JK1001	TJSF42904	CONNECTOR	K1CB204B0004
JK1002	K2HA103A0006	PHONE PIN JACK	
JK1003	K2HC206B0003	CONNECTOR	
JK1004	TJSF45015	15P D-SUB	K1FB115B0058
JK1005	TJSF45015	15P D-SUB	K1FB115B0058
JK1006	K1FB109B0058	RS232C IN TERMINAL	
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1002	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1003	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1004	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1014	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1015	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1016	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1017	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1018	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1	TJSF43703	3P CONNECTOR	K1KA03B00098
RM1001	B3RAD0000038	REMOTE CONTROLL RECEIVER	
RM3001	B3RAD0000038	REMOTE CONTROLL RECEIVER	
S1801	EVQPLHA15	SWITCH	
S1802	EVQPLHA15	SWITCH	
S1803	EVQPLHA15	SWITCH	
S1804	EVQPLHA15	SWITCH	
S1805	EVQPLHA15	SWITCH	

Ref. No.	Part No.	Part Name & Description	Remarks
S1806	EVQPLHA15	SWITCH	
S1807	EVQPLHA15	SWITCH	
S1808	EVQPLHA15	SWITCH	
S1809	EVQPLHA15	SWITCH	
S1810	EVQPLHA15	SWITCH	
X1001	TSSA116	CRYSTAL	H0D162500002
X1002	H1A4405B0001	CRYSTAL	
X1003	H0J737400005	CRYSTAL	
X1005	TSSA124	CRYSTAL	H0J120500007
Z101	ERZV10D471	VARISTOR	⚠
Z9601	G4F3E0000004	IGNITER	⚠
	TNPA2588	CIRCUIT BOARD Z	
	TNPA2602	CIRCUIT BOARD R	
	TXANP01VJN8	CIRCUIT BOARD A	
	TXANP03VJN8	CIRCUIT BOARD K	
	TXANPPQVJN7	CIRCUIT BOARD P/Q	

16. Schematic Diagram for printing with A4 size

A-P.C.Board TXANP01VJN8 (PT-L520U/E) (4/5)


IC1050
C1AB00001671
COLOR UNIFOMITY
PANEL TIMING GENERATOR
IC1051
C1AB00001523
IC1052
C1AB00001523
IC1053
C1AB00001523
1H INVERTER
SAMPLE HOLD
IC1057
C1AB00001522
IC1058
C1AB00001522
LEVEL SHIFT
REGISTER
LED&SW CONTROL
IC1012
C0JBAF000315
TC74LCX574FT
IC1013
C0JBAE000146
OR GATE
IC1027
C3BBFC000127
SRAM
IC1046
C0CBABD00015
AVR 3.3V
IC1061
AN78L12M
AVR 12V
IC1062
AN78L05M
AVR 5V
IC1060
C0FBBD000089
D/A CONVERTER
R-P.C.BOARD TNPA2602
FRONT
REAR
TO
A-P.C.B.
(A7)
TO
R-P.C.B.
(R1)
TO
Z-P.C.B.
(Z3)
TO
Z-P.C.B.
(Z4)
A7
A5
A6
R1
Q1821
Q1822
Q1823
Q1824
Q1825
Q1600
Q1601
Q1602
Q1603
Q1604
Q1605
Q1606
Q1607
Q1608
Q1609
Q1610
Q1611
Q1612
Q1613
Q1614
Q1615
Q1616
Q1617
D3001
MA3X157A0L
RM3001
B3RAD0000038
RM1001
B3RAD0000038
D1821
LNJ107W5ARA1
TPA44
TPA42
TPA43
9.5Vp-p
20μs/div
SH R
SH G
SH B
Rp
Gp
Bp
NRS
(31)
(32)
(33)
(34)
(35)
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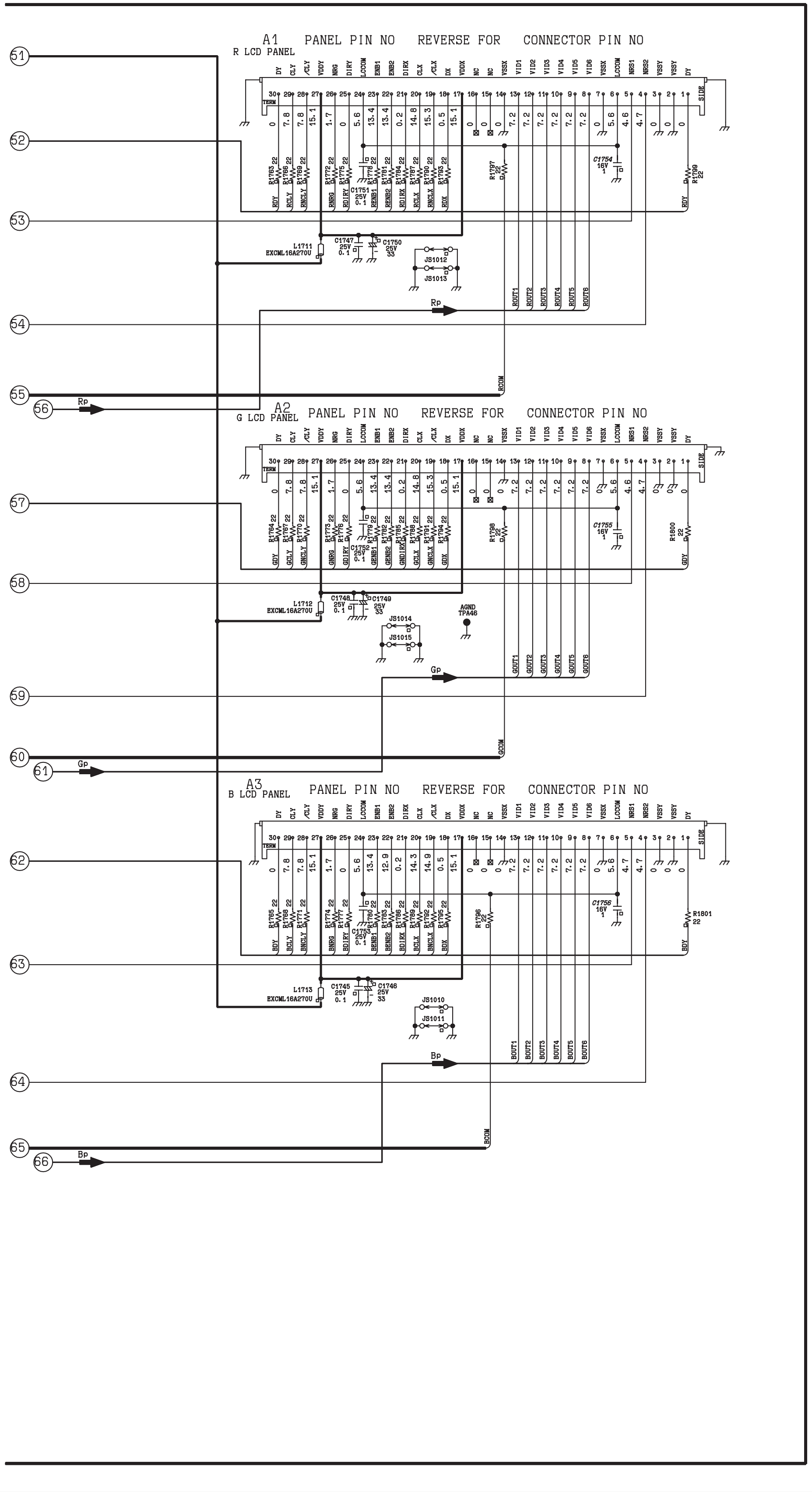
A-P.C.Board TXANP01VJN8 (PT-L520U/E) (5/5)


A1
R LCD PANEL
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
L1711
EXCML16A270U
C1747
C1750
C1751
C1754
R1797
R1799
JS1012
JS1013
Rp
ROUT1
ROUT2
ROUT3
ROUT4
ROUT5
ROUT6
RCOM
A2
G LCD PANEL
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
L1712
EXCML16A270U
C1748
C1749
C1752
C1755
R1798
R1800
JS1014
JS1015
AGND
TPA46
Gp
GOUT1
GOUT2
GOUT3
GOUT4
GOUT5
GOUT6
GCOM
A3
B LCD PANEL
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
L1713
EXCML16A270U
C1745
C1746
C1753
C1756
R1796
R1801
JS1010
JS1011
Bp
BOUT1
BOUT2
BOUT3
BOUT4
BOUT5
BOUT6
BCOM
(51)
(52)
(53)
(54)
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(56)
(57)
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(61)
(62)
(63)
(64)
(65)
(66)

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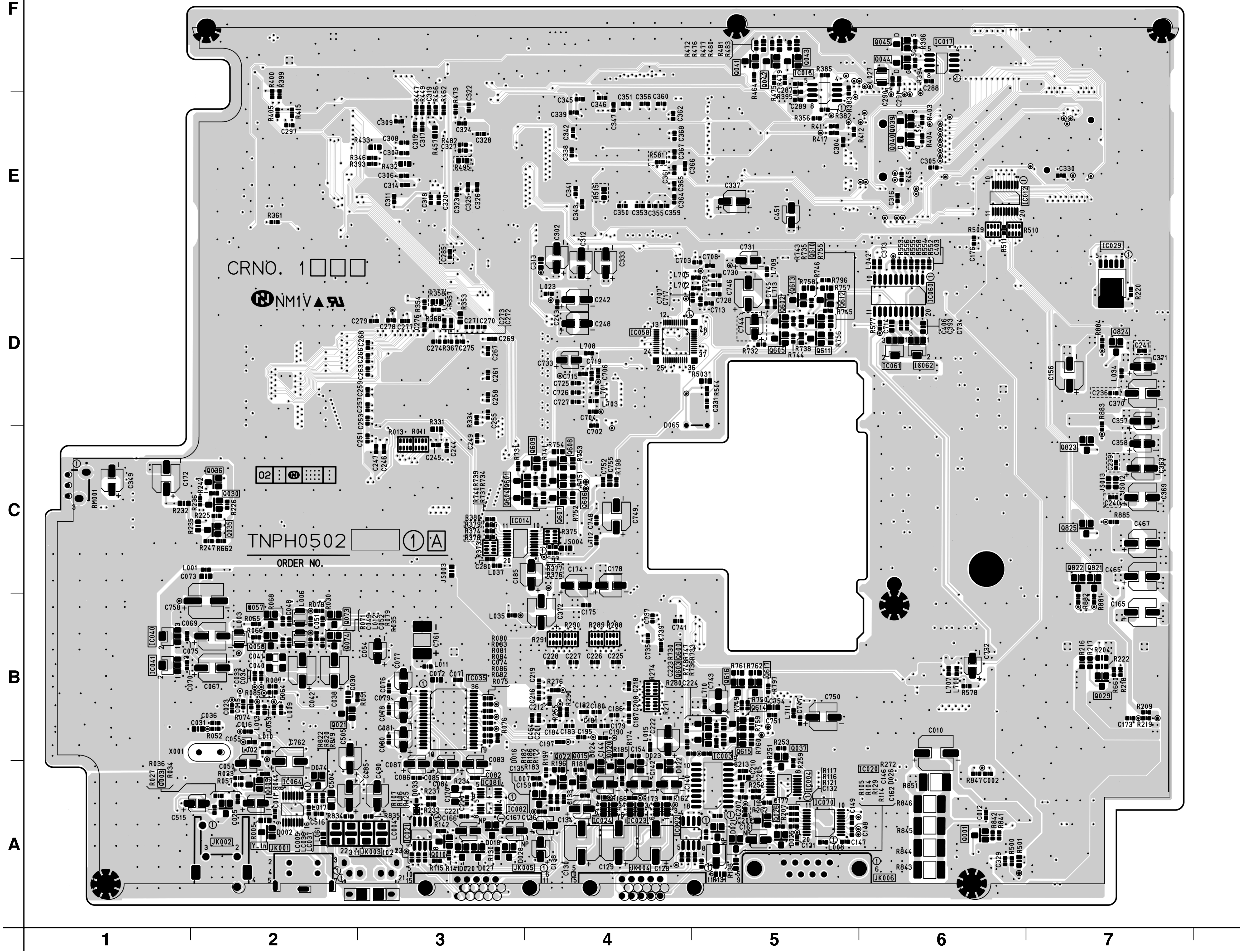
E
D
C
B
A

1 2 3 4 5 6 7 8 9

A-P.C.Board TXANP01VJN8 (Component Side)



A-P.C.Board(Component Side)

IC

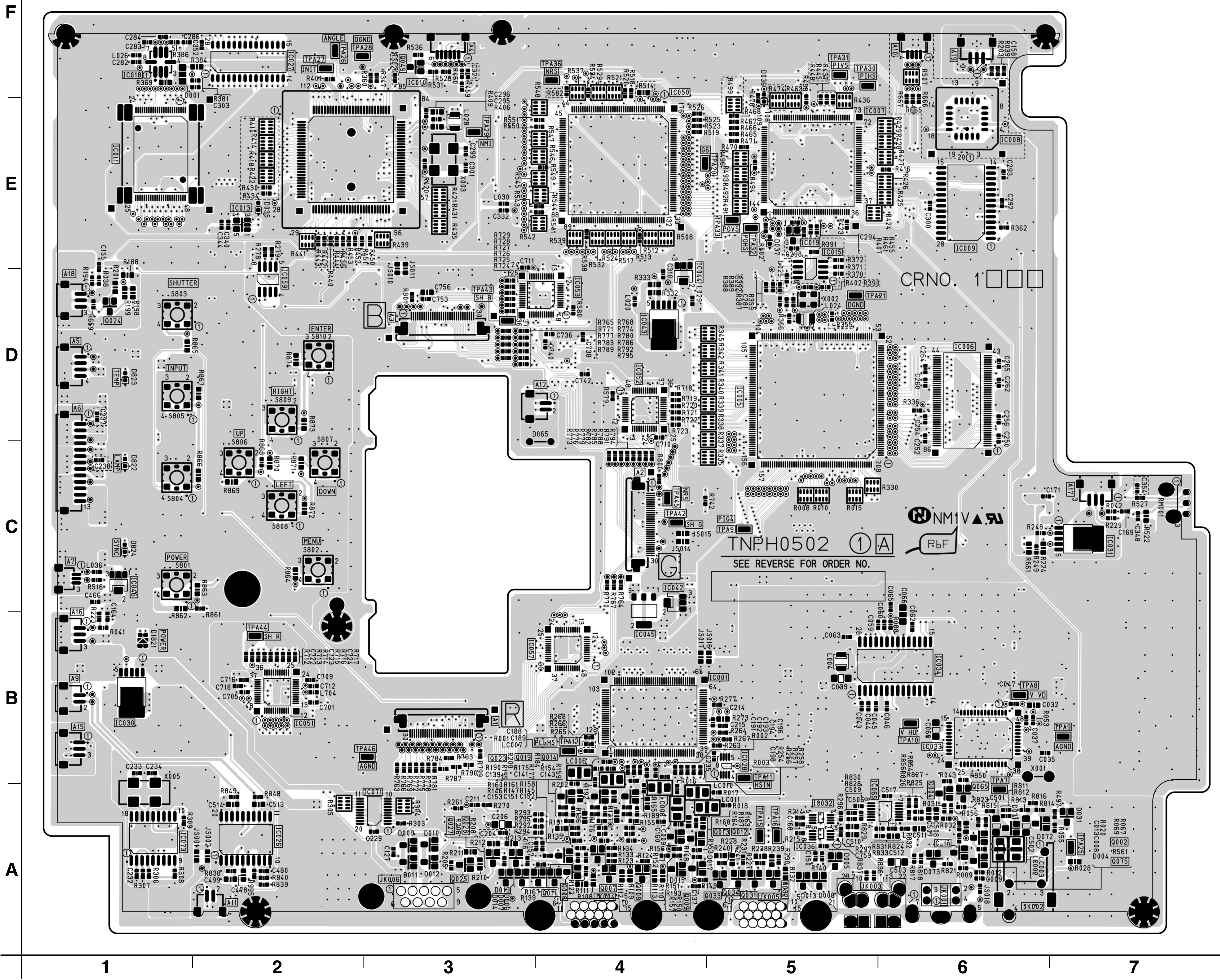
IC1003	A-5	IC1035	B-3
IC1004	A-5	IC1040	B-1
IC1012	E-6	IC1041	B-1
IC1014	C-3	IC1058	D-4
IC1016	F-5	IC1060	D-6
IC1017	F-6	IC1061	D-6
IC1020	A-5	IC1062	D-6
IC1021	A-3	IC1064	A-2
IC1022	A-4	IC1070	A-5
IC1023	A-4	IC1081	A-3
IC1024	A-4	IC1082	A-3
IC1029	D-7		

TRANSISTOR

Q1001	A-6	Q1074	B-2
Q1003	A-2	Q1600	B-4
Q1005	A-2	Q1601	C-4
Q1010	A-3	Q1602	D-5
Q1015	A-4	Q1603	B-4
Q1020	A-4	Q1604	C-4
Q1021	B-2	Q1605	D-5
Q1022	A-4	Q1606	C-4
Q1026	A-5	Q1607	C-4
Q1029	B-7	Q1608	C-4
Q1030	C-2	Q1609	C-4
Q1035	C-2	Q1610	D-5
Q1036	C-2	Q1611	D-5
Q1037	B-5	Q1612	D-5
Q1039	E-6	Q1613	D-5
Q1040	E-6	Q1614	B-5
Q1041	F-5	Q1615	B-5
Q1042	F-5	Q1616	B-5
Q1043	F-5	Q1617	B-5
Q1044	F-6	Q1821	C-7
Q1045	F-6	Q1822	C-7
Q1057	B-2	Q1823	C-7
Q1058	B-2	Q1824	D-7
Q1073	B-2	Q1825	C-7

ADDRESS INFORMATION

A-P.C.Board (Foil Side) **TXANP01VJN8**


F
E
D
C
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A
1
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4
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6
7
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9
TNPH0502 ① A
SEE REVERSE FOR ORDER NO.
CRNO. 1□□□
NM1V
PbF
SHUTTER
S803
INPUT
S805
S804
ENTER
S810
RIGHT
S809
UP
S806
S807
LEFT
DOWN
S808
MENU
S802
POWER
S801
IC1001
IC1005
IC1006
IC1007
IC1009
IC1010
IC1011
IC1013
IC1018
IC1026
IC1027
IC1028
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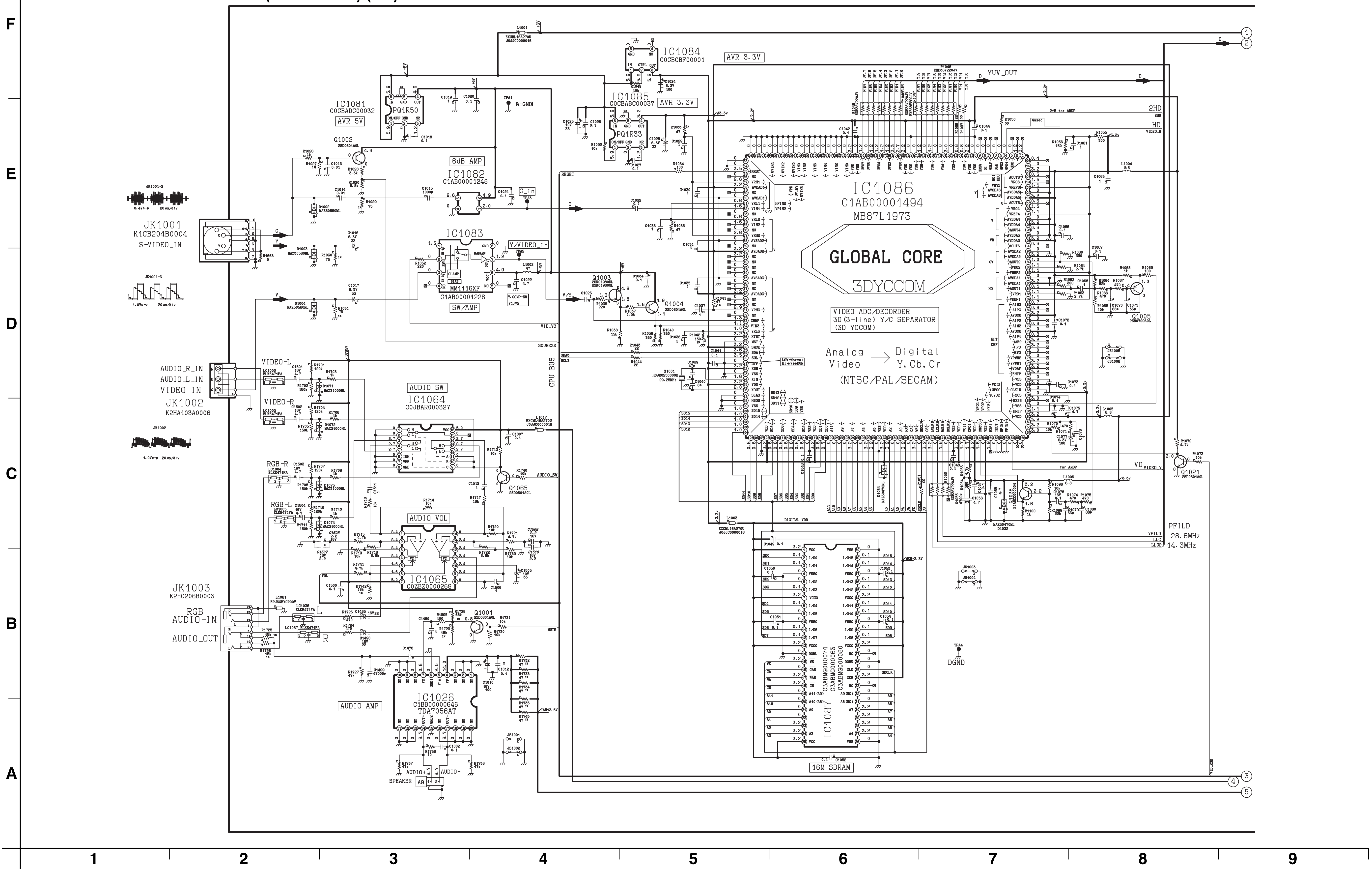
IC1032
IC1033
IC1034
IC1036
IC1042
IC1043
IC1044
IC1045
IC1046
IC1050
IC1051
IC1052
IC1053
IC1057
IC1059
IC1065
IC1071
IC1073
JK002
JK003
JK005
JK006
X001
X002
X003
X005
ANGLE
DGND
INIT
NMI
NRS
PIVS
PIHS
POVS
POHS
SH B
SH G
SH R
PIG
V VD
V HD
AGND
HSIN
PLEHS
TEMP
LAMP
SYNC
B
G
R

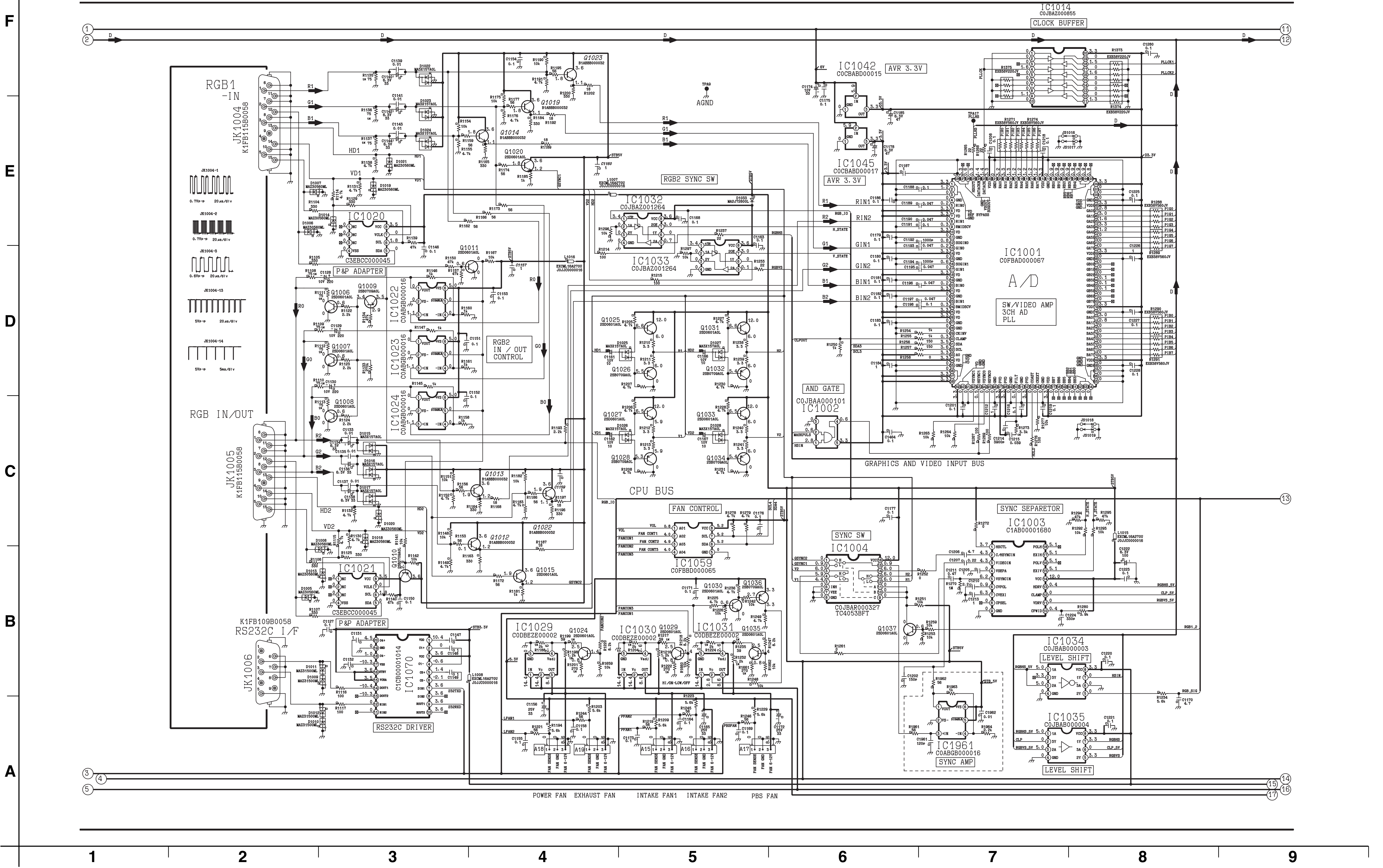
A-P.C.Board(Foil Side)			
IC			
IC1001	B-4	IC1034	B-6
IC1005	D-5	IC1036	A-5
IC1006	D-6	IC1042	C-4
IC1007	E-5	IC1043	D-4
IC1009	E-6	IC1044	D-4
IC1010	F-3	IC1045	C-4
IC1011	E-1	IC1046	C-1
IC1013	E-2	IC1050	E-4
IC1018	F-1	IC1051	B-2
IC1026	A-2	IC1052	D-4
IC1027	F-2	IC1053	D-4
IC1028	B-5	IC1057	B-4
IC1030	B-1	IC1059	D-2
IC1031	C-7	IC1065	A-6
IC1032	A-5	IC1071	A-3
IC1033	B-6	IC1073	A-1
TRANSISTOR			
Q1002	A-7	Q1024	D-1
Q1004	A-6	Q1025	A-3
Q1006	A-4	Q1027	A-3
Q1007	A-4	Q1028	A-3
Q1008	A-4	Q1031	A-5
Q1009	A-4	Q1032	A-5
Q1011	A-4	Q1033	A-5
Q1012	A-5	Q1034	A-5
Q1013	A-5	Q1049	F-3
Q1014	B-4	Q1065	B-6
Q1019	B-3	Q1075	A-7
Q1023	B-3		
TPA			
TPA7	A-6	TPA27	F-2
TPA8	B-6	TPA28	F-3
TPA9	B-7	TPA29	E-3
TPA10	B-6	TPA30	F-5
TPA11	B-5	TPA31	F-5
TPA15	A-5	TPA32	E-5
TPA16	A-5	TPA33	E-5
TPA17	B-4	TPA36	F-4
TPA19	C-5	TPA42	C-4
TPA20	E-5	TPA43	D-3
TPA21	D-5	TPA44	B-2
TPA25	A-7	TPA45	C-4
TPA26	F-2	TPA46	B-3

ADDRESS INFORMATION

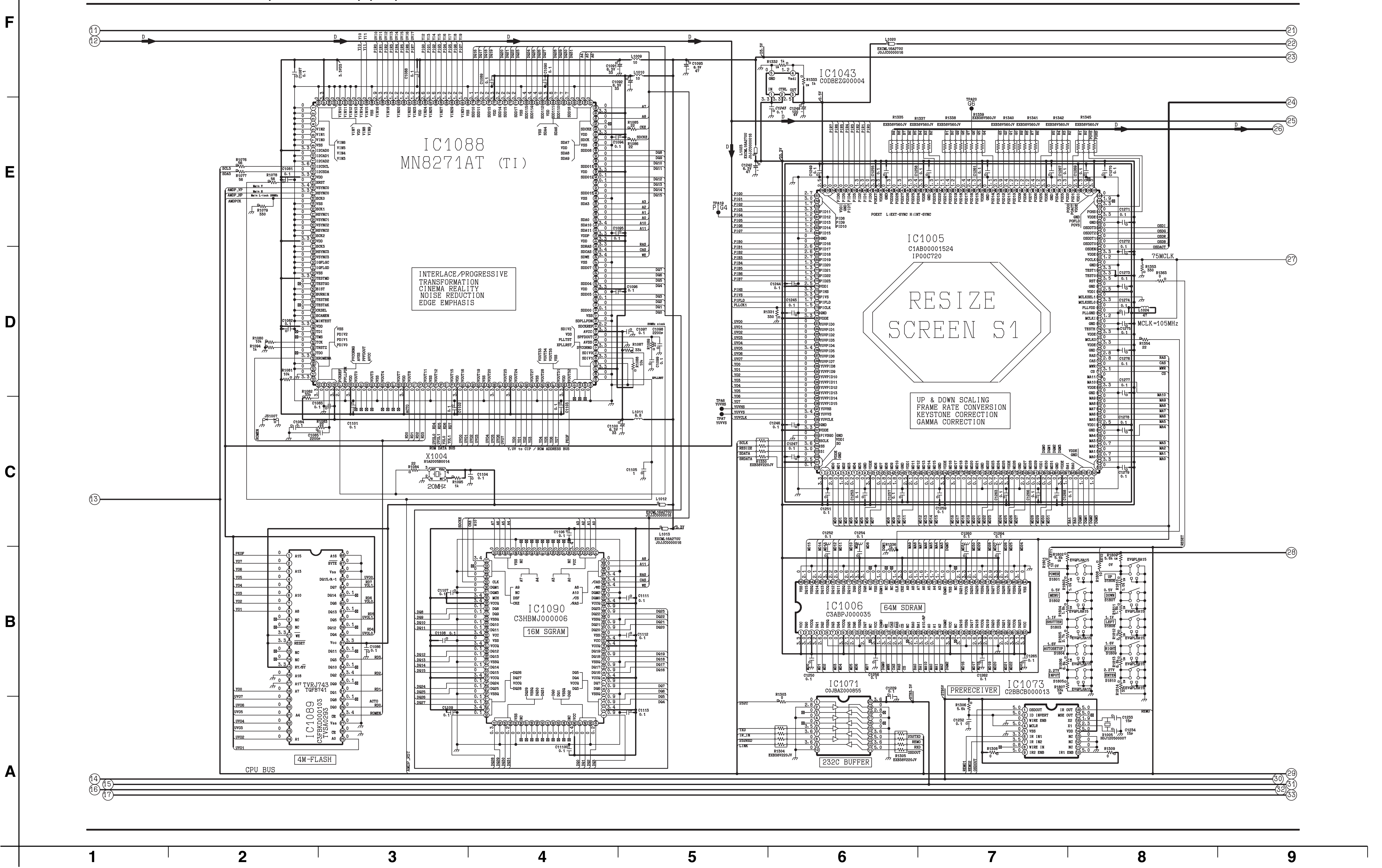
A-P.C.Board TXANP01VJN7 (PT-L720U/E) (1/5)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
IC1081
C0CBADC00032
AVR 5V
PQ1R50
IC1084
C0CBCBF00001
IC1085
C0CBABC00037
AVR 3.3V
PQ1R33
AVR 3.3V
IC1082
C1AB00001248
6dB AMP
C_in
IC1083
MM1116XF
C1AB00001226
SW/AMP
Y/VIDEO_in
CLAMP
BIAS
JK1001
K1CB204B0004
S-VIDEO_IN
JK1001-2
JK1001-3
JK1002
K2HA103A0006
AUDIO_R_IN
AUDIO_L_IN
VIDEO IN
VIDEO-L
VIDEO-R
RGB-R
RGB-L
AUDIO SW
IC1064
C0JBAR000327
AUDIO VOL
IC1065
C0ZBZ0000269
CPU BUS
JK1003
K2HC206B0003
RGB
AUDIO-IN
AUDIO_OUT
AUDIO AMP
IC1026
C1BB00000646
TDA7056AT
SPEAKER
AUDIO+
AUDIO-
A9
Q1001
Q1002
Q1003
Q1004
Q1005
Q1021
Q1065
Q1038
IC1086
C1AB00001494
MB87L1973
GLOBAL CORE
3DYCCOM
VIDEO ADC/DECORDER
3D (3-line) Y/C SEPARATOR
(3D YCCOM)
Analog Video → Digital Y,Cb,Cr
(NTSC/PAL/SECAM)
YUV_OUT
2HD
HD
VD
VIDEO_V
PFILD
28.6MHz
14.3MHz
VFILD
LLC
LLC2
IC1087
C3ABMG000074
C3ABMG000063
C3ABMG000080
16M SDRAM
DIGITAL VDD
X1001
TPA4
DGND
RESET
SQUEEZE
SDA3
SCL3
VID_YC
AUDIO_SW
MUTE
VOL
①
②
③
④
⑤

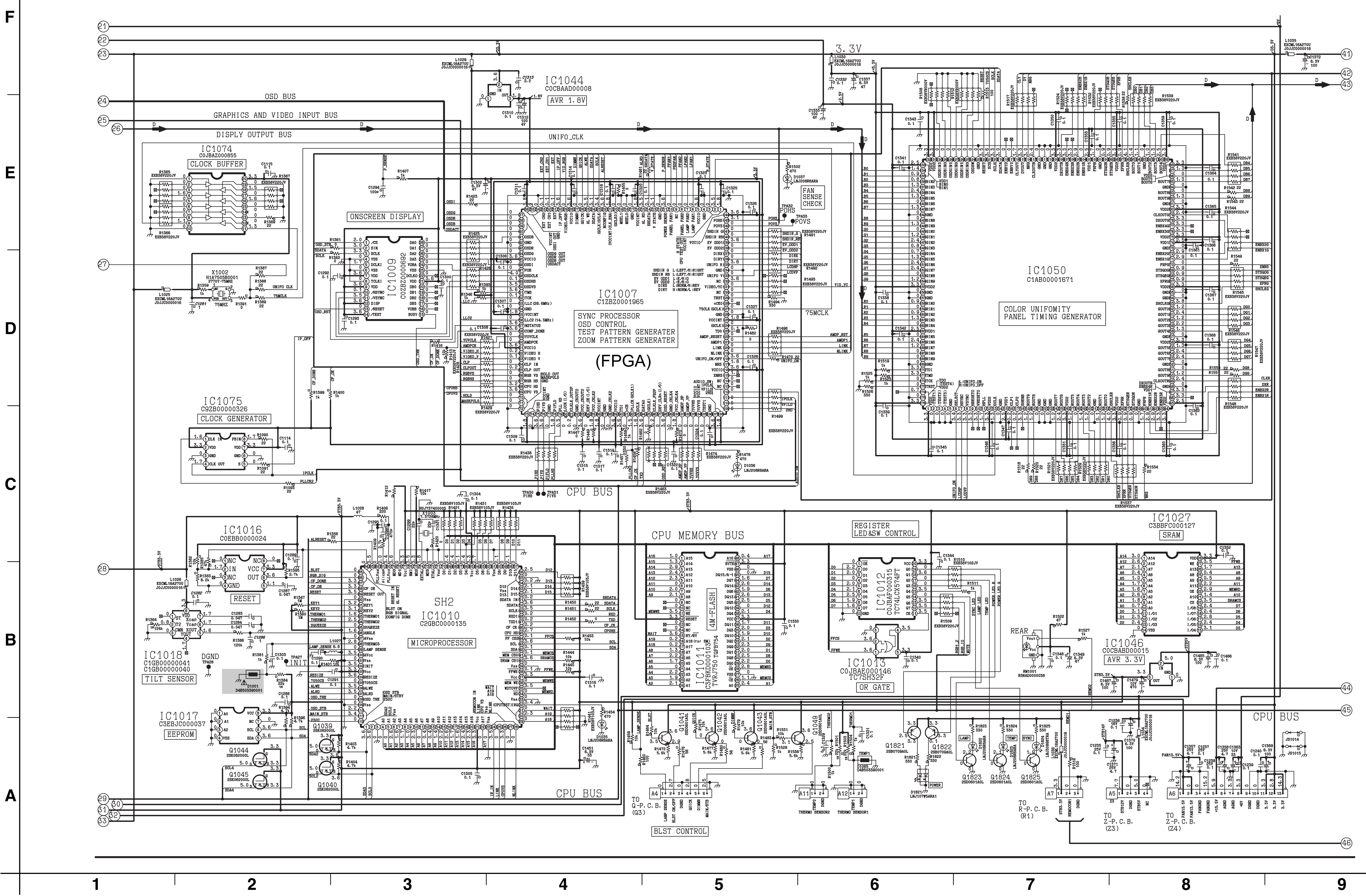
A-P.C.Board TXANP01VJN7 (PT-L720U/E) (2/5)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
RGB1 -IN
JK1004
K1FB115B0058
JK1004-1
JK1004-2
JK1004-3
JK1004-13
JK1004-14
RGB IN/OUT
JK1005
K1FB115B0058
K1FB109B0058
RS232C I/F
JK1006
IC1020
C3EBCC000045
P&P ADAPTER
IC1021
C3EBCC000045
P&P ADAPTER
IC1022
C0ABGB000016
IC1023
C0ABGB000016
IC1024
C0ABGB000016
RGB2 IN / OUT CONTROL
IC1070
C1CB00001014
RS232C DRIVER
Q1006
Q1007
Q1008
Q1009
Q1010
Q1011
Q1012
Q1013
Q1014
Q1015
Q1019
Q1020
Q1022
Q1023
AGND
RGB2 SYNC SW
IC1032
C0JBAZ001264
IC1033
C0JBAZ001264
Q1025
Q1026
Q1027
Q1028
Q1031
Q1032
Q1033
Q1034
CPU BUS
FAN CONTROL
IC1059
C0FBBD000065
IC1029
C0DBEZE00002
IC1030
C0DBEZE00002
IC1031
C0DBEZE00002
Q1024
Q1029
Q1030
Q1035
Q1036
POWER FAN
EXHAUST FAN
INTAKE FAN1
INTAKE FAN2
PBS FAN
IC1014
C0JBAZ000655
CLOCK BUFFER
IC1042
C0CBABD00015
AVR 3.3V
IC1045
C0CBABD00017
AVR 3.3V
IC1001
C0FBAD000067
A/D
SW/VIDEO AMP
3CH AD
PLL
RIN1
RIN2
GIN1
GIN2
BIN1
BIN2
AND GATE
C0JBAA000101
IC1002
GRAPHICS AND VIDEO INPUT BUS
SYNC SW
IC1004
C0JBAR000327
TC4053BFT
Q1037
SYNC SEPARATOR
IC1003
C1AB00001680
IC1961
C0ABGB000016
SYNC AMP
IC1034
C0JBAB000003
LEVEL SHIFT
IC1035
C0JBAB000004
LEVEL SHIFT
1
2
3
4
5
11
12
13
14
15
16
17

A-P.C.Board TXANP01VJN7 (PT-L720U/E) (3/5)

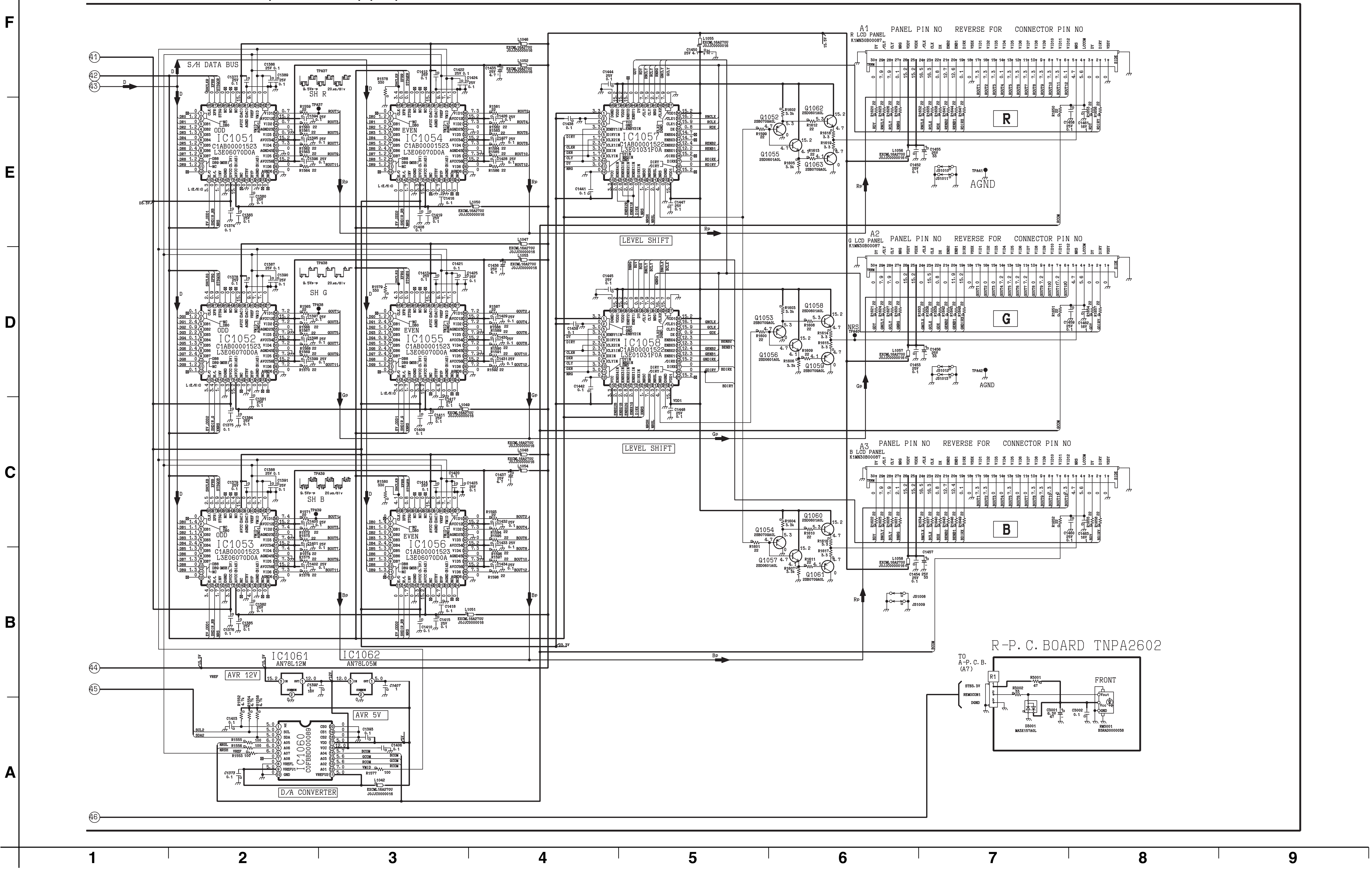

IC1088
MN8271AT (TI)
INTERLACE/PROGRESSIVE
TRANSFORMATION
CINEMA REALITY
NOISE REDUCTION
EDGE EMPHASIS
IC1043
C0DBEZG00004
IC1005
C1AB00001524
IP00C720
RESIZE
SCREEN S1
UP & DOWN SCALING
FRAME RATE CONVERSION
KEYSTONE CORRECTION
GAMMA CORRECTION
75MCLK
MCLK=105MHz
X1004
20MHz
ROM DATA BUS
Y,UV to CIP / ROM ADDRESS BUS
IC1089
C3FBD0000103
TVRJ743
TQFB741
4M-FLASH
CPU BUS
IC1090
C3HBMJ000006
16M SGRAM
IC1006
C3ABPJ000035
64M SDRAM
IC1071
C0JBAZ000855
232C BUFFER
PRERECEIVER
IC1073
C2BBCB000013
POWER
MENU
SHUTTER
AUTOSETUP
INPUT
UP
DOWN
LEFT
RIGHT
ENTER
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

A-P.C.Board TXANP01VJN7 (PT-L720U/E) (4/5)

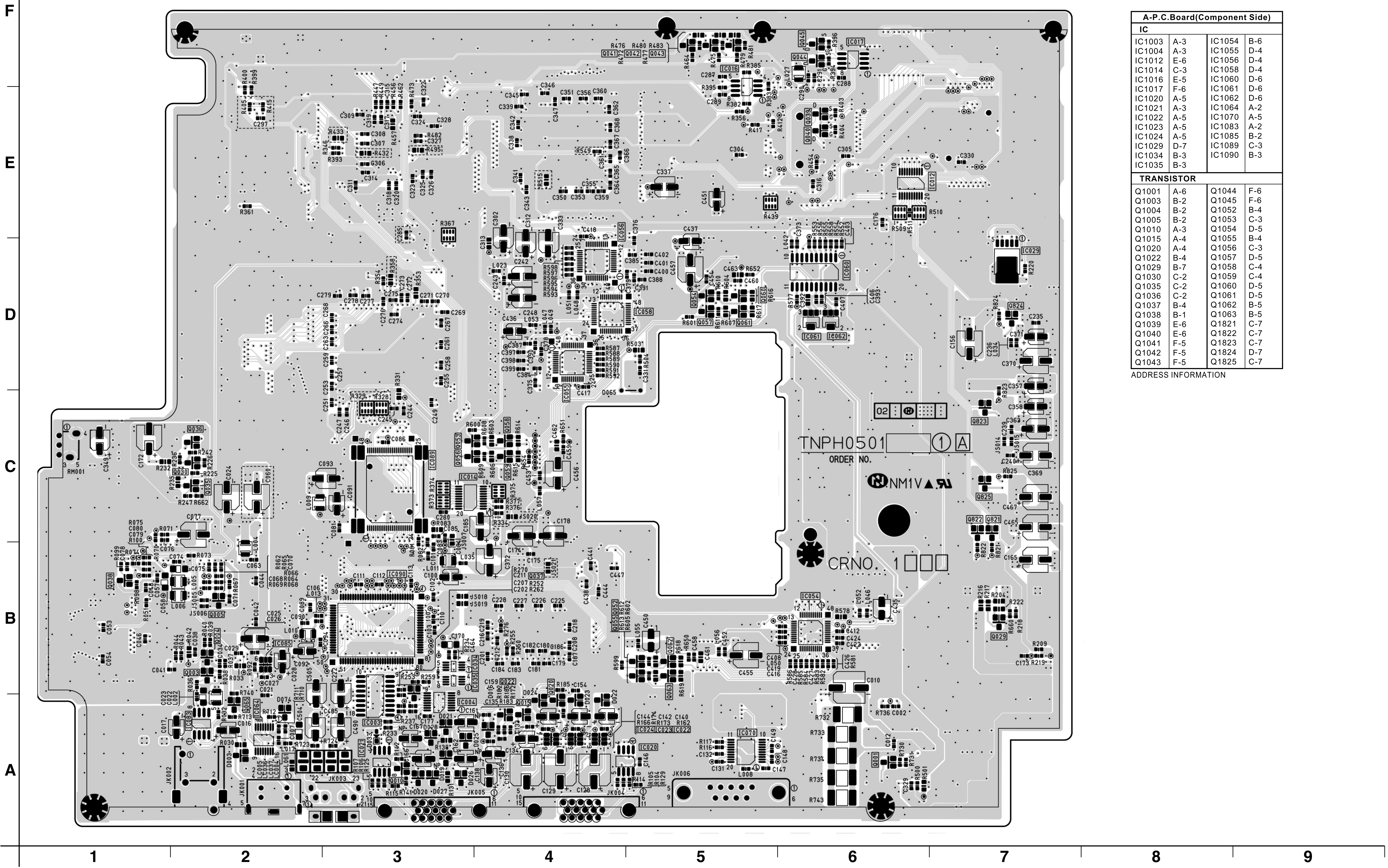


IC1074
C0JBAZ000855
CLOCK BUFFER
IC1009
C0ZBZ0000692
ONSCREEN DISPLAY
IC1044
C0CBAAD00008
AVR 1.8V
IC1007
C1ZBZ0001965
SYNC PROCESSOR
OSD CONTROL
TEST PATTERN GENERATER
ZOOM PATTERN GENERATER
(FPGA)
FAN SENSE CHECK
IC1050
C1AB00001671
COLOR UNIFOMITY PANEL TIMING GENERATOR
IC1075
C9ZB00000326
CLOCK GENERATOR
OSD BUS
GRAPHICS AND VIDEO INPUT BUS
DISPLY OUTPUT BUS
UNIFO_CLK
3.3V
CPU BUS
IC1016
C0EBB0000024
RESET
IC1018
C1GB00000041
C1GB00000040
TILT SENSOR
IC1017
C3EBJC000037
EEPROM
SH2
IC1010
C2GBC0000135
MICROPROCESSOR
CPU MEMORY BUS
IC1011
C3FBKD000103
TVRJ750 TQFP754
4M-FLASH
REGISTER
LED&SW CONTROL
IC1012
C0JBAF000315
TC74LCX574FT
IC1013
C0JBAE000146
TC7S32F
OR GATE
IC1027
C3BBFC000127
SRAM
IC1046
C0CBABD00015
AVR 3.3V
REAR
BLST CONTROL
TO Q-P.C.B. (Q3)
TO R-P.C.B. (R1)
TO Z-P.C.B. (Z3)
TO Z-P.C.B. (Z4)
THERMO SENSOR2
THERMO SENSOR1
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

A-P.C.Board TXANP01VJN7 (PT-L720U/E) (5/5)


S/H DATA BUS
IC1051
ODD
C1AB00001523
L3E06070D0A
IC1054
EVEN
IC1052
IC1055
IC1053
IC1056
SH R
SH G
SH B
TPA37
TPA38
TPA39
9.5Vp-p
20 μs/div
IC1057
C1AB00001522
L3E01031F0A
IC1058
LEVEL SHIFT
Q1052
Q1055
Q1062
Q1063
Q1053
Q1056
Q1058
Q1059
Q1054
Q1057
Q1060
Q1061
2SB0709A0L
2SD0601A0L
A1
R LCD PANEL
K1MN30B00087
A2
G LCD PANEL
A3
B LCD PANEL
PANEL PIN NO
REVERSE FOR
CONNECTOR PIN NO
R
G
B
TPA41
TPA42
AGND
JS1010
JS1011
JS1012
JS1013
JS1008
JS1009
IC1061
AN78L12M
AVR 12V
IC1062
AN78L05M
AVR 5V
IC1060
C0FBBD000089
D/A CONVERTER
SCL2
SDA2
NRSL
NRSH
VREF
BCOM
GCOM
RCOM
EXCML16A270U
J0JJC0000016
L1042
L1046
L1047
L1048
L1049
L1050
L1051
L1052
L1053
L1054
L1055
L1056
L1057
L1058
R-P.C.BOARD TNPA2602
TO
A-P.C.B.
(A7)
STB3.3V
REMOCON1
DGND
R1
R3001
R3002
D3001
MA3X157A0L
C3001
C3002
FRONT
RM3001
B3RAD0000038
Vout
Vcc
GND
41
42
43
44
45
46
Rp
Gp
Bp
D
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

A-P.C.Board TXANP01VJN7
(Component Side)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
TNPH0501
ORDER NO.
NM1V
CRNO. 1
JK001
JK002
JK003
JK005
JK006
JK007
RM001
IC1089
IC1014
IC1054
IC1029
IC1012
IC1017
IC1016

A-P.C.Board(Component Side)

IC

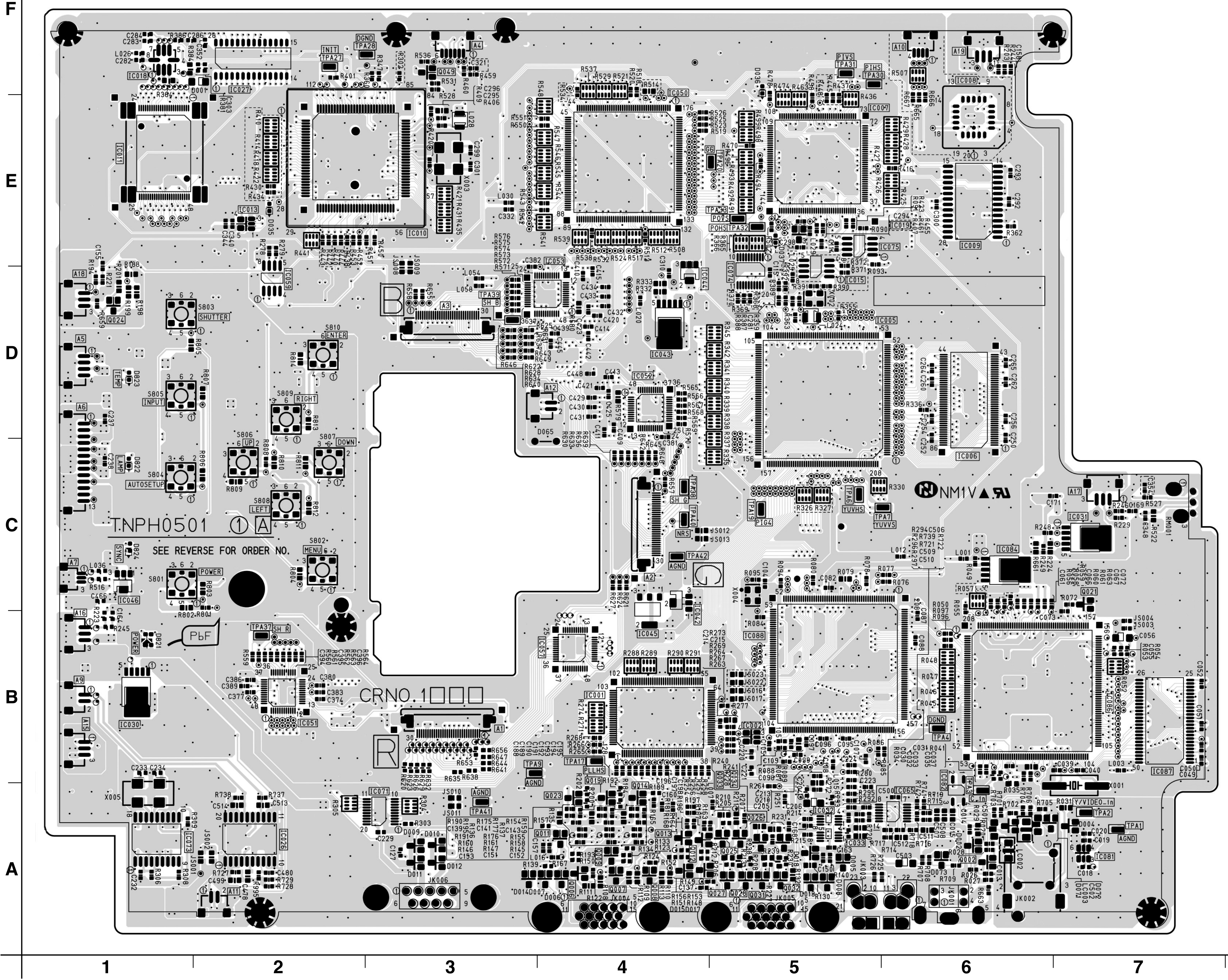
IC1003	A-3	IC1054	B-6
IC1004	A-3	IC1055	D-4
IC1012	E-6	IC1056	D-4
IC1014	C-3	IC1058	D-4
IC1016	E-5	IC1060	D-6
IC1017	F-6	IC1061	D-6
IC1020	A-5	IC1062	D-6
IC1021	A-3	IC1064	A-2
IC1022	A-5	IC1070	A-5
IC1023	A-5	IC1083	A-2
IC1024	A-5	IC1085	B-2
IC1029	D-7	IC1089	C-3
IC1034	B-3	IC1090	B-3
IC1035	B-3		

TRANSISTOR

Q1001	A-6	Q1044	F-6
Q1003	B-2	Q1045	F-6
Q1004	B-2	Q1052	B-4
Q1005	B-2	Q1053	C-3
Q1010	A-3	Q1054	D-5
Q1015	A-4	Q1055	B-4
Q1020	A-4	Q1056	C-3
Q1022	B-4	Q1057	D-5
Q1029	B-7	Q1058	C-4
Q1030	C-2	Q1059	C-4
Q1035	C-2	Q1060	D-5
Q1036	C-2	Q1061	D-5
Q1037	B-4	Q1062	B-5
Q1038	B-1	Q1063	B-5
Q1039	E-6	Q1821	C-7
Q1040	E-6	Q1822	C-7
Q1041	F-5	Q1823	C-7
Q1042	F-5	Q1824	D-7
Q1043	F-5	Q1825	C-7

ADDRESS INFORMATION

A-P.C.Board (Foil Side) **TXANP01VJN7**


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
TNPH0501 ① A
SEE REVERSE FOR ORDER NO.
CRN0.1
NM1V
SHUTTER
ENTER
INPUT
RIGHT
UP
DOWN
LEFT
AUTOSETUP
MENU
POWER
PbF

A-P.C.Board(Foil Side)

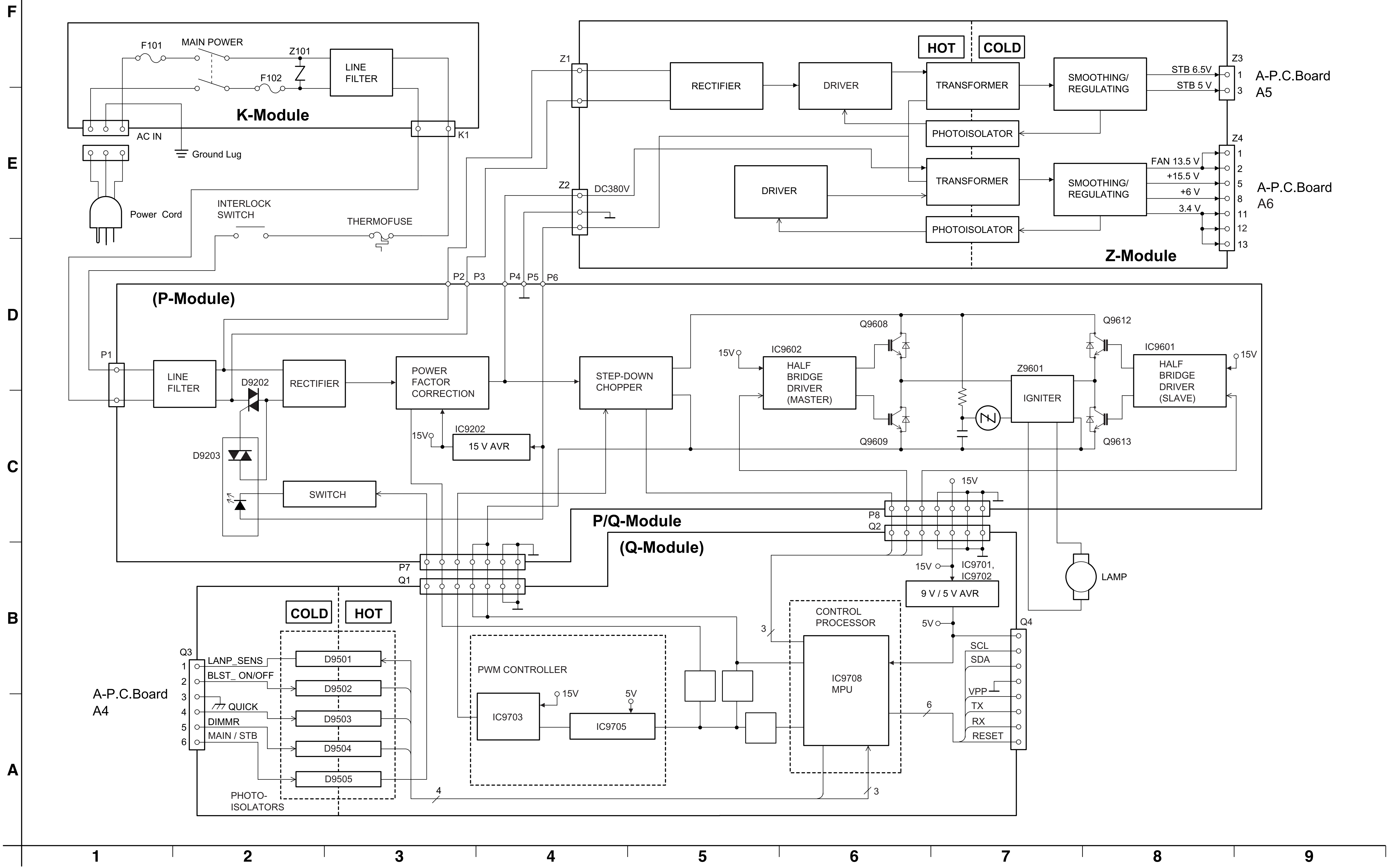
IC			
IC1001	B-4	IC1045	B-4
IC1002	B-5	IC1046	C-1
IC1005	D-5	IC1050	E-4
IC1006	D-6	IC1051	B-2
IC1007	E-5	IC1052	D-4
IC1009	E-6	IC1053	D-4
IC1010	E-2	IC1057	B-4
IC1011	E-1	IC1059	D-2
IC1013	E-2	IC1065	A-6
IC1018	F-1	IC1071	A-3
IC1026	A-2	IC1073	A-1
IC1027	F-2	IC1074	D-5
IC1030	B-1	IC1075	E-5
IC1031	C-7	IC1081	A-7
IC1032	A-5	IC1082	A-6
IC1033	A-5	IC1084	C-6
IC1042	C-4	IC1086	B-6
IC1043	D-4	IC1087	B-7
IC1044	D-4	IC1088	B-5

TRANSISTOR			
Q1002	A-6	Q1024	D-1
Q1006	A-4	Q1025	A-5
Q1007	A-4	Q1026	A-5
Q1008	A-4	Q1027	A-5
Q1009	A-4	Q1028	A-5
Q1011	A-4	Q1031	A-5
Q1012	A-4	Q1032	A-5
Q1013	A-4	Q1033	B-5
Q1014	A-4	Q1034	B-5
Q1019	A-4	Q1049	F-3
Q1021	C-7	Q1065	A-2
Q1023	A-4		

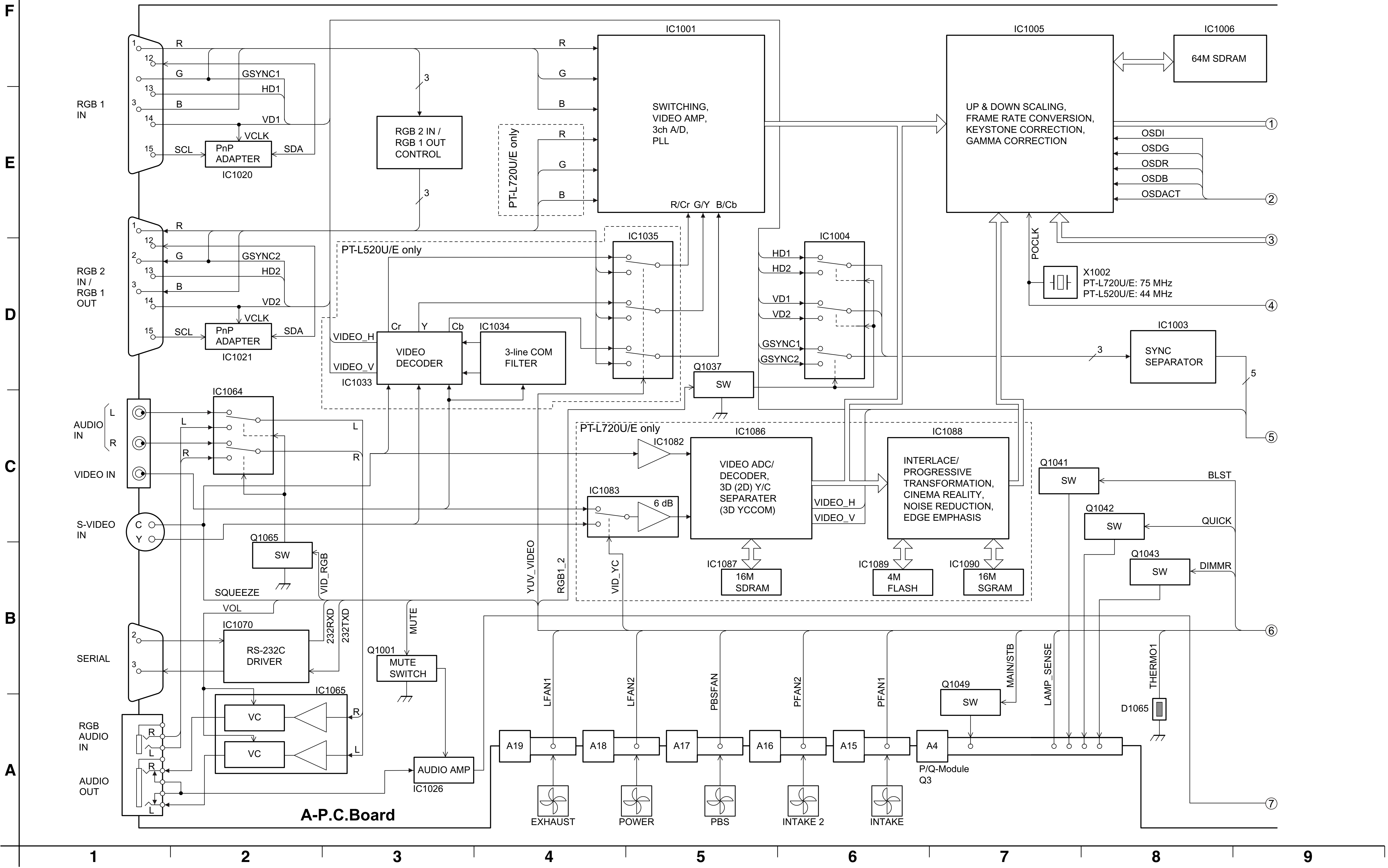
TPA			
TPA1	A-7	TPA28	F-2
TPA2	A-7	TPA30	F-5
TPA3	A-6	TPA31	F-5
TPA4	B-6	TPA32	E-5
TPA6	C-5	TPA33	E-5
TPA7	C-5	TPA37	B-2
TPA9	B-3	TPA38	C-4
TPA17	B-4	TPA39	D-3
TPA19	C-5	TPA40	C-4
TPA20	E-4	TPA41	A-3
TPA27	F-2	TPA42	C-4

ADDRESS INFORMATION

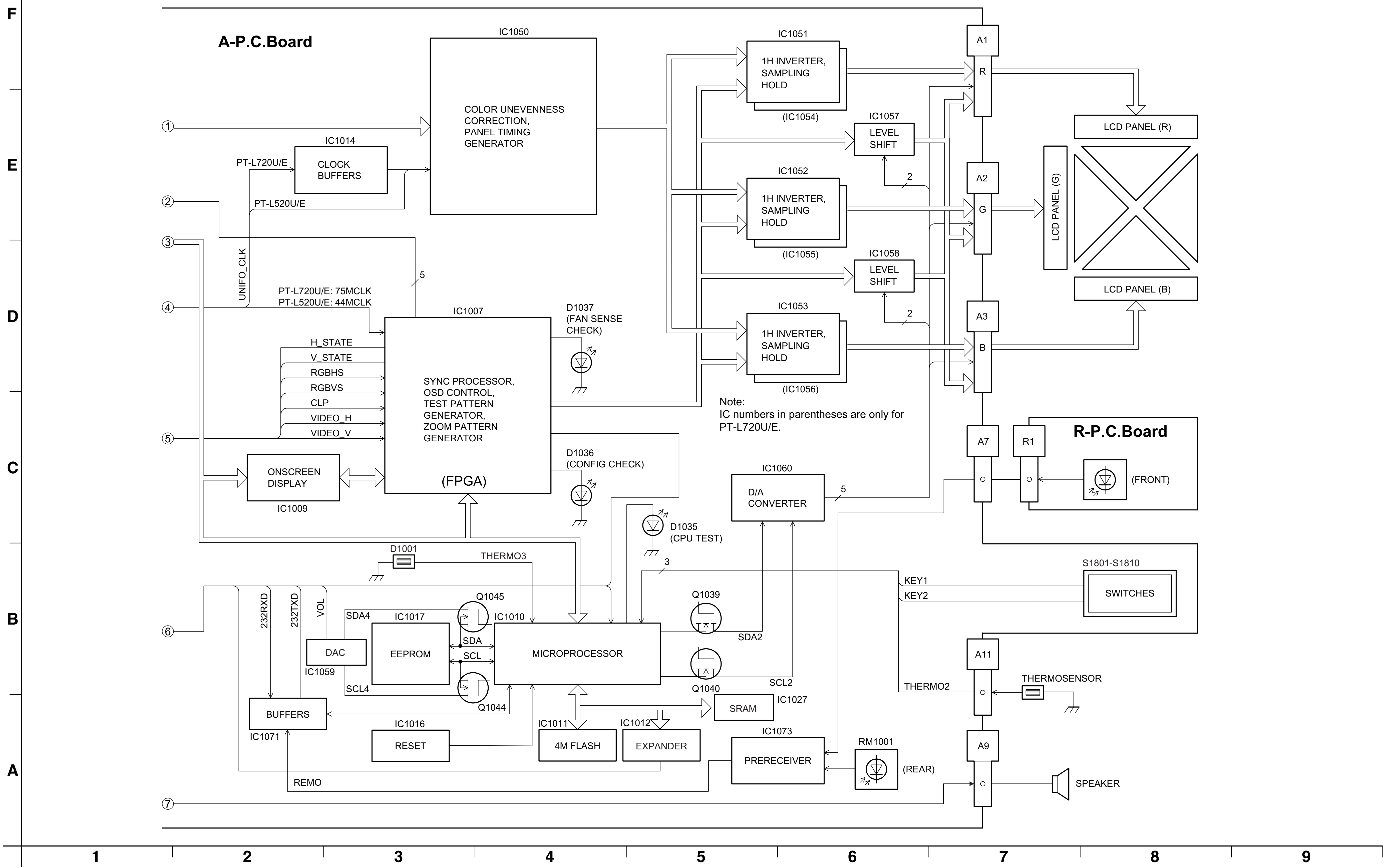
Power Supply


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
F101
MAIN POWER
Z101
LINE FILTER
F102
K-Module
AC IN
K1
Ground Lug
Power Cord
INTERLOCK SWITCH
THERMOFUSE
Z1
Z2
DC380V
RECTIFIER
DRIVER
HOT
COLD
TRANSFORMER
SMOOTHING/ REGULATING
STB 6.5V
STB 5 V
Z3
1
3
A-P.C.Board A5
PHOTOISOLATOR
Z4
FAN 13.5 V
+15.5 V
+6 V
3.4 V
1
2
5
8
11
12
13
A-P.C.Board A6
DRIVER
TRANSFORMER
SMOOTHING/ REGULATING
PHOTOISOLATOR
Z-Module
P2
P3
P4
P5
P6
(P-Module)
P1
LINE FILTER
D9202
RECTIFIER
POWER FACTOR CORRECTION
STEP-DOWN CHOPPER
Q9608
Q9612
15V
IC9602
HALF BRIDGE DRIVER (MASTER)
IC9601
HALF BRIDGE DRIVER (SLAVE)
15V
Z9601
IGNITER
Q9609
Q9613
D9203
15V
IC9202
15 V AVR
SWITCH
15V
P8
Q2
P/Q-Module
(Q-Module)
P7
Q1
15V
IC9701, IC9702
9 V / 5 V AVR
LAMP
COLD
HOT
3
CONTROL PROCESSOR
5V
Q4
Q3
1
2
3
4
5
6
LANP_SENS
BLST_ ON/OFF
QUICK
DIMMR
MAIN / STB
A-P.C.Board A4
D9501
D9502
D9503
D9504
D9505
PWM CONTROLLER
IC9703
15V
5V
IC9705
IC9708 MPU
6
SCL
SDA
VPP
TX
RX
RESET
PHOTO- ISOLATORS
4
3

Signal Processing (1/2)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
RGB 1 IN
R
G
B
GSYNC1
HD1
VD1
VCLK
SCL
SDA
PnP ADAPTER
IC1020
RGB 2 IN / RGB 1 OUT
GSYNC2
HD2
VD2
IC1021
RGB 2 IN / RGB 1 OUT CONTROL
3
PT-L720U/E only
IC1001
SWITCHING, VIDEO AMP, 3ch A/D, PLL
R/Cr
G/Y
B/Cb
PT-L520U/E only
IC1035
VIDEO_H
VIDEO_V
Cr
Y
Cb
VIDEO DECODER
IC1033
IC1034
3-line COM FILTER
Q1037
SW
IC1004
GSYNC1
GSYNC2
IC1005
UP & DOWN SCALING, FRAME RATE CONVERSION, KEYSTONE CORRECTION, GAMMA CORRECTION
IC1006
64M SDRAM
OSDI
OSDG
OSDR
OSDB
OSDACT
POCLK
X1002
PT-L720U/E: 75 MHz
PT-L520U/E: 44 MHz
IC1003
SYNC SEPARATOR
5
①
②
③
④
⑤
⑥
⑦
AUDIO IN
L
R
VIDEO IN
S-VIDEO IN
C
Y
IC1064
Q1065
SW
VID_RGB
SQUEEZE
VOL
PT-L720U/E only
IC1082
IC1083
6 dB
IC1086
VIDEO ADC/ DECODER, 3D (2D) Y/C SEPARATER (3D YCCOM)
IC1087
16M SDRAM
IC1088
INTERLACE/ PROGRESSIVE TRANSFORMATION, CINEMA REALITY, NOISE REDUCTION, EDGE EMPHASIS
IC1089
4M FLASH
IC1090
16M SGRAM
YUV_VIDEO
RGB1_2
VID_YC
Q1041
SW
BLST
Q1042
SW
QUICK
Q1043
SW
DIMMR
SERIAL
IC1070
RS-232C DRIVER
232RXD
232TXD
MUTE
Q1001
MUTE SWITCH
IC1065
VC
RGB AUDIO IN
AUDIO OUT
AUDIO AMP
IC1026
A-P.C.Board
LFAN1
LFAN2
PBSFAN
PFAN2
PFAN1
MAIN/STB
LAMP_SENSE
THERMO1
Q1049
SW
D1065
A19
A18
A17
A16
A15
A4
P/Q-Module Q3
EXHAUST
POWER
PBS
INTAKE 2
INTAKE

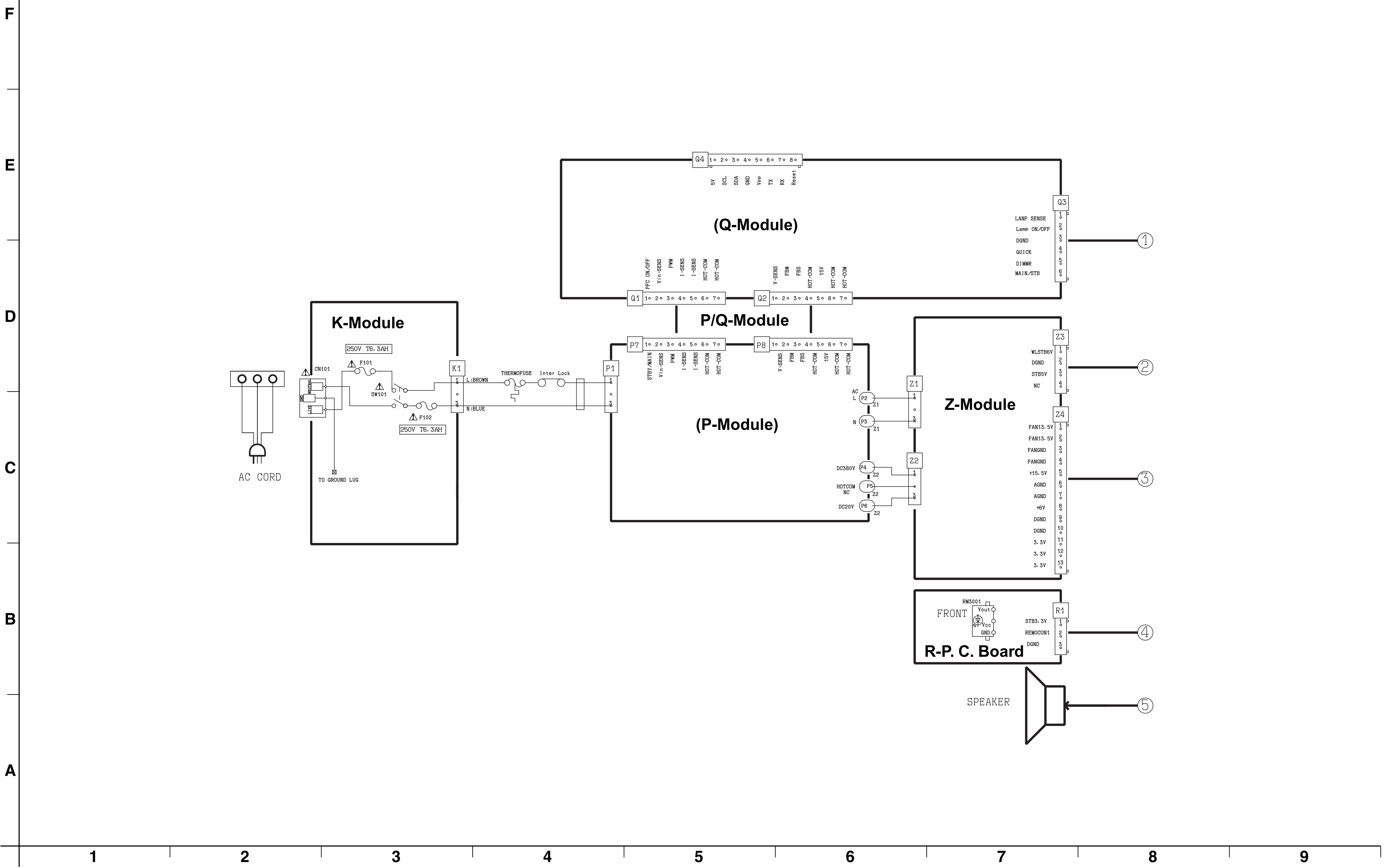
Signal Processing (2/2)



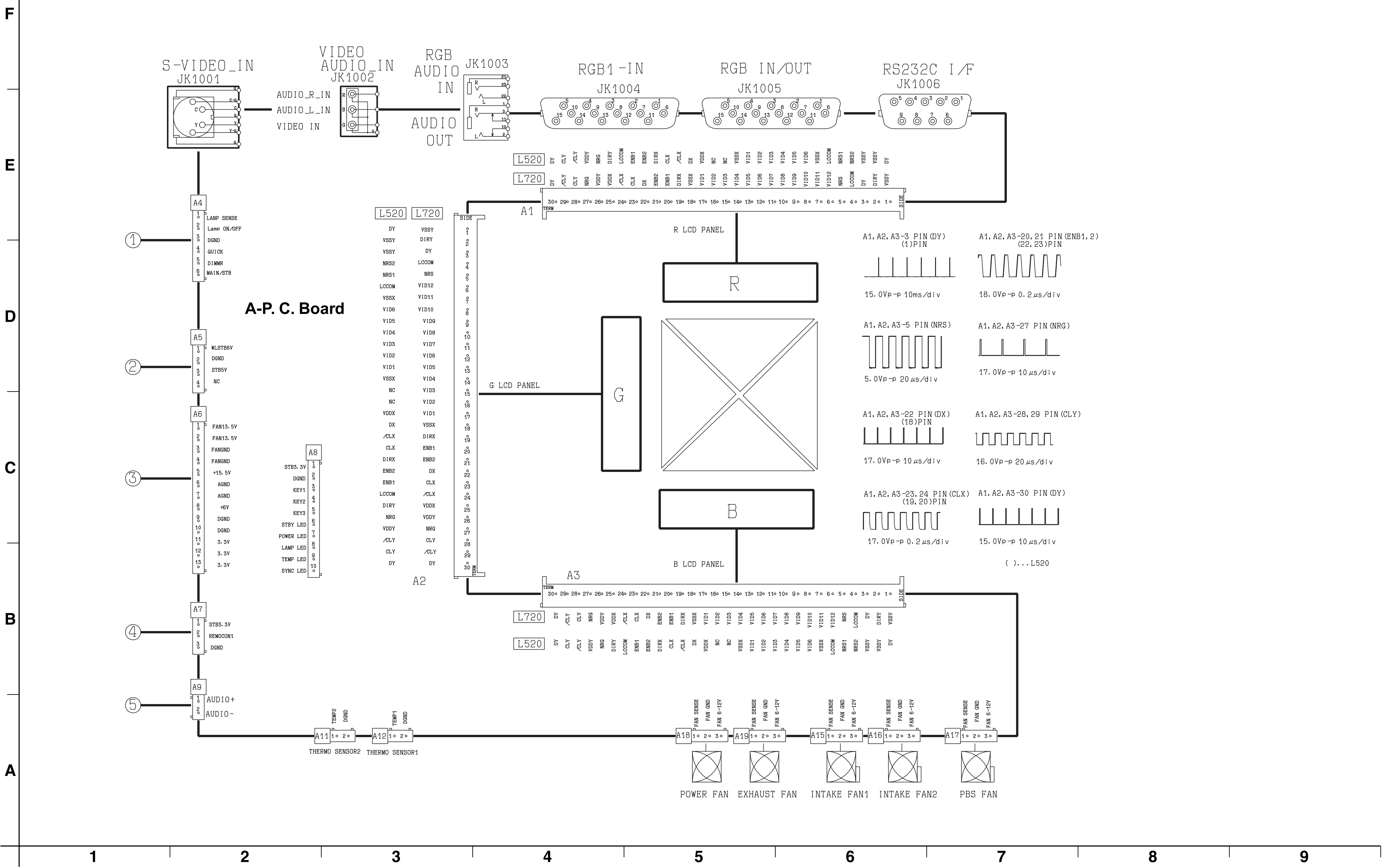
Note:
IC numbers in parentheses are only for PT-L720U/E.

A-P.C.Board
IC1050
COLOR UNEVENNESS CORRECTION, PANEL TIMING GENERATOR
IC1014
CLOCK BUFFERS
PT-L720U/E
PT-L520U/E
UNIFO_CLK
PT-L720U/E: 75MCLK
PT-L520U/E: 44MCLK
5
IC1007
SYNC PROCESSOR, OSD CONTROL, TEST PATTERN GENERATOR, ZOOM PATTERN GENERATOR
(FPGA)
H_STATE
V_STATE
RGBHS
RGBVS
CLP
VIDEO_H
VIDEO_V
D1037
(FAN SENSE CHECK)
D1036
(CONFIG CHECK)
D1035
(CPU TEST)
ONSCREEN DISPLAY
IC1009
IC1051
1H INVERTER, SAMPLING HOLD
(IC1054)
IC1052
1H INVERTER, SAMPLING HOLD
(IC1055)
IC1053
1H INVERTER, SAMPLING HOLD
(IC1056)
IC1057
LEVEL SHIFT
IC1058
LEVEL SHIFT
2
2
A1
R
A2
G
A3
B
LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
A7
R1
R-P.C.Board
(FRONT)
IC1060
D/A CONVERTER
5
D1001
THERMO3
3
KEY1
KEY2
S1801-S1810
SWITCHES
232RXD
232TXD
VOL
SDA4
SCL4
DAC
IC1059
IC1017
EEPROM
SDA
SCL
Q1045
Q1044
IC1010
MICROPROCESSOR
Q1039
Q1040
SDA2
SCL2
SRAM
IC1027
BUFFERS
IC1071
IC1016
RESET
IC1011
4M FLASH
IC1012
EXPANDER
IC1073
PRERECEIVER
RM1001
(REAR)
REMO
A11
THERMO2
THERMOSENSOR
A9
SPEAKER
①
②
③
④
⑤
⑥
⑦
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

Interconnection Block Diagram (1/2)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
AC CORD
K-Module
CN101
NEUTRAL
GND
LIVE
TO GROUND LUG
250V T6.3AH
F101
SW101
F102
250V T6.3AH
K1
L:BROWN
N:BLUE
THERMOFUSE
Inter Lock
P1
(Q-Module)
Q4
5V
SCL
SDA
GND
Vpp
TX
RX
Reset
Q3
LANP SENSE
Lamp ON/OFF
DGND
QUICK
DIMMR
MAIN/STB
①
Q1
PFC ON/OFF
Vin-SENS
PWM
I-SENS
I-SENS
HOT-COM
HOT-COM
Q2
V-SENS
FBM
FBS
HOT-COM
15V
HOT-COM
HOT-COM
P/Q-Module
P7
STBY/MAIN
Vin-SENS
PWM
I-SENS
I-SENS
HOT-COM
HOT-COM
P8
V-SENS
FBM
FBS
HOT-COM
15V
HOT-COM
HOT-COM
(P-Module)
AC
L
P2
Z1
N
P3
Z1
DC380V
P4
Z2
HOTCOM
NC
P5
Z2
DC20V
P6
Z2
Z1
Z2
Z-Module
Z3
WLSTB6V
DGND
STB5V
NC
②
Z4
FAN13.5V
FAN13.5V
FANGND
FANGND
+15.5V
AGND
AGND
+6V
DGND
DGND
3.3V
3.3V
3.3V
③
R-P. C. Board
FRONT
RM3001
Vout
Vcc
GND
R1
STB3.3V
REMOCON1
DGND
④
SPEAKER
⑤

Interconnection Block Diagram (2/2)


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
S-VIDEO_IN
JK1001
AUDIO_R_IN
AUDIO_L_IN
VIDEO IN
VIDEO
AUDIO_IN
JK1002
RGB
AUDIO
IN
AUDIO
OUT
JK1003
RGB1-IN
JK1004
RGB IN/OUT
JK1005
RS232C I/F
JK1006
A-P. C. Board
A4
LAMP SENSE
Lamp ON/OFF
DGND
QUICK
DIMMR
MAIN/STB
①
A5
WLSTB6V
DGND
STB5V
NC
②
A6
FAN13.5V
FAN13.5V
FANGND
FANGND
+15.5V
AGND
AGND
+6V
DGND
DGND
3.3V
3.3V
3.3V
③
A8
STB3.3V
DGND
KEY1
KEY2
KEY3
STBY LED
POWER LED
LAMP LED
TEMP LED
SYNC LED
A7
STB3.3V
REMOCON1
DGND
④
A9
AUDIO+
AUDIO-
⑤
L520
L720
DY VSSY
VSSY DIRY
VSSY DY
NRS2 LCCOM
NRS1 NRS
LCCOM VID12
VSSX VID11
VID6 VID10
VID5 VID9
VID4 VID8
VID3 VID7
VID2 VID6
VID1 VID5
VSSX VID4
NC VID3
NC VID2
VDDX VID1
DX VSSX
/CLX DIRX
CLX ENB1
DIRX ENB2
ENB2 DX
ENB1 CLX
LCCOM /CLX
DIRY VDDX
NRG VDDY
VDDY NRG
/CLY CLY
CLY /CLY
DY DY
A2
SIDE
TERM
L520 DY CLY /CLY VDDY NRG DIRY LCCOM ENB1 ENB2 DIRX CLX /CLX DX VDDX NC NC VSSX VID1 VID2 VID3 VID4 VID5 VID6 VSSX LCCOM NRS1 NRS2 VSSY VSSY DY
L720 DY /CLY CLY NRG VDDY VDDX /CLX CLX DX ENB2 ENB1 DIRX VSSX VID1 VID2 VID3 VID4 VID5 VID6 VID7 VID8 VID9 VID10 VID11 VID12 NRS LCCOM DY DIRY VSSY
A1
R LCD PANEL
R
G LCD PANEL
G
B
B LCD PANEL
A3
L720 DY /CLY CLY NRG VDDY VDDX /CLX CLX DX ENB2 ENB1 DIRX VSSX VID1 VID2 VID3 VID4 VID5 VID6 VID7 VID8 VID9 VID10 VID11 VID12 NRS LCCOM DY DIRY VSSY
L520 DY CLY /CLY VDDY NRG DIRY LCCOM ENB1 ENB2 DIRX CLX /CLX DX VDDX NC NC VSSX VID1 VID2 VID3 VID4 VID5 VID6 VSSX LCCOM NRS1 NRS2 VSSY VSSY DY
A1, A2, A3-3 PIN (DY) (1)PIN
15.0Vp-p 10ms/div
A1, A2, A3-20, 21 PIN (ENB1, 2) (22, 23)PIN
18.0Vp-p 0.2µs/div
A1, A2, A3-5 PIN (NRS)
5.0Vp-p 20µs/div
A1, A2, A3-27 PIN (NRG)
17.0Vp-p 10µs/div
A1, A2, A3-22 PIN (DX) (18)PIN
17.0Vp-p 10µs/div
A1, A2, A3-28, 29 PIN (CLY)
16.0Vp-p 20µs/div
A1, A2, A3-23, 24 PIN (CLX) (19, 20)PIN
17.0Vp-p 0.2µs/div
A1, A2, A3-30 PIN (DY)
15.0Vp-p 10µs/div
( )...L520
A11 TEMP2 DGND
THERMO SENSOR2
A12 TEMP1 DGND
THERMO SENSOR1
A18 FAN SENSE FAN GND FAN 6-12V
POWER FAN
A19 FAN SENSE FAN GND FAN 6-12V
EXHAUST FAN
A15 FAN SENSE FAN GND FAN 6-12V
INTAKE FAN1
A16 FAN SENSE FAN GND FAN 6-12V
INTAKE FAN2
A17 FAN SENSE FAN GND FAN 6-12V
PBS FAN

11 Schematic Diagram

Schematic Diagram for Model PT-L720E / L520E

Important Safety No

Components identified by the international symbol ⚠have special characteristics important for s
specified ones.

Schematic Diagram for Model PT-L720U / L52

IMPORTANT SAFETY N

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES
HAZARDS.
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE
THE SCHEMATIC.

Notes:

1. **Resistor**

   All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an C

   ○ : Nonflammable

   △ : Solid

   ◪ : Wire Wound

   ⊠ : Metal Oxide

   ◎ : Metal Film

   ⊗ : Fuse

2. **Capacitor**

   ⊗ : Temperature Compensation

   Ⓜ : Polyester

   ⓜ : Metalized Polyester

   ⊠ : Polypropylene

   +⫞− : Electrolytic

   NP⫞ : Bipolar

   Ⓣ : Dipped Tantalum

   Ⓩ : Z-Type

3. **Coil**

   The unit of inductance is a μH, unless otherwise noted.

4. **Test Point**

   ● : Test Point

5. **Voltage Measurement**

   The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the custc

6. **Color code for the links between diagrams and circuit boards**

From/To		To/From	Color code
Block diagram	←→	Schematic diagram	Magenta
Schematic diagram	←→	Schematic diagram	Green
Schematic diagram	←→	Circuit boards	Yellow
Schematic diagram	←→	Waveforms	Cyan (Light blue)

7. **HOT and COLD indications**

   The power circuit board contains a circuit area using a separate power supply to isolate the ground
   diagram. Take the precautions below:

8. **This schematic diagram is the latest at the time of printing and the subject to change withou**

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an e
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may breal
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fu
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

/ L520E

nportant Safety Notice

stics important for safety. When replacing any of these components, use only the manufacturer's

20U / L520U

RTANT SAFETY NOTICE

PECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK

ECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF

of resistance is an OHM [Ω] (K=1 000 M=1 000 000).

al when all the customer's controls are set to the standard condition.

Color code
agenta
reen
ellow
yan (Light blue)

o isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic

ct to change without notice.

or you may get an electric shock.

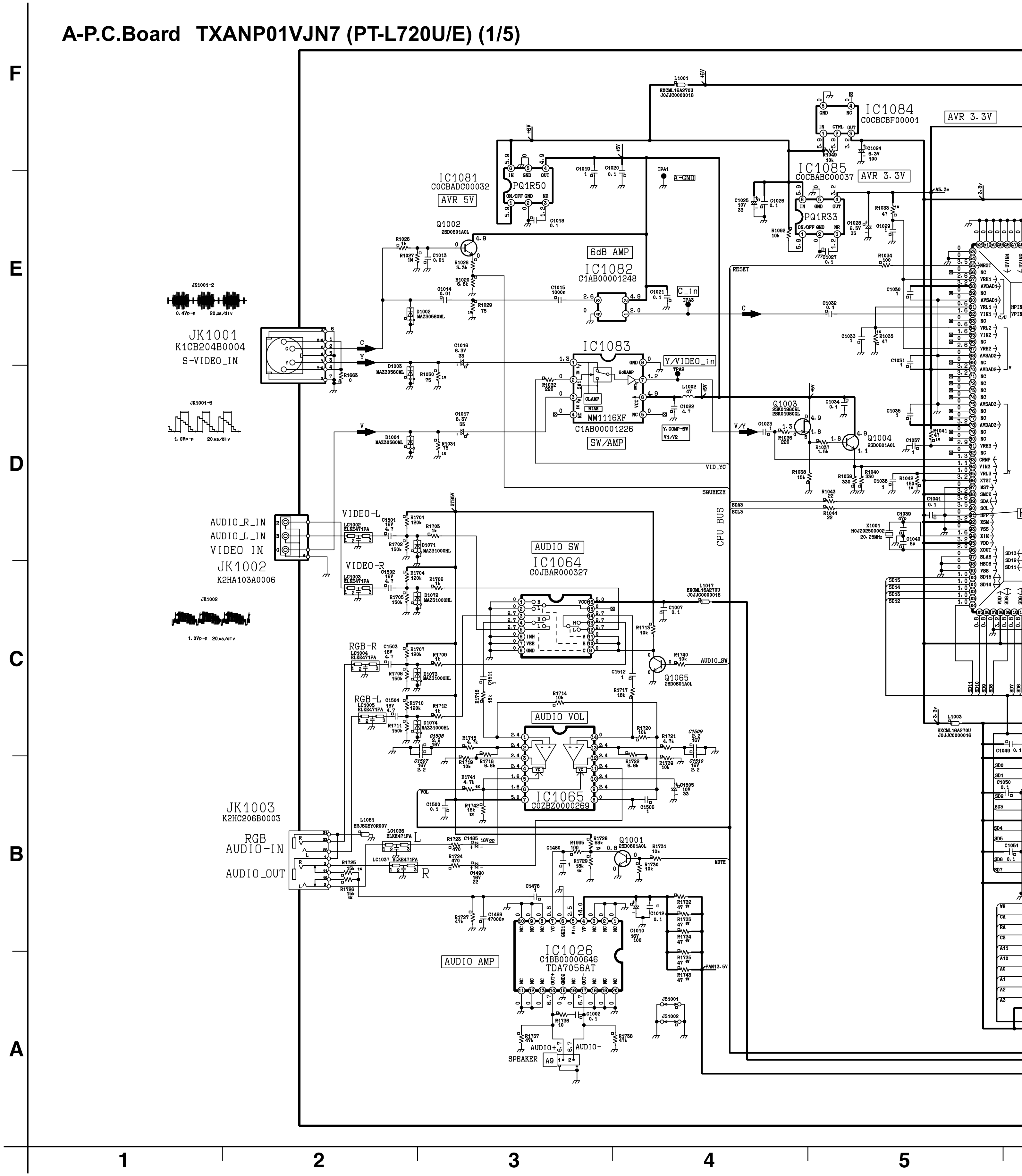
the parts may break.

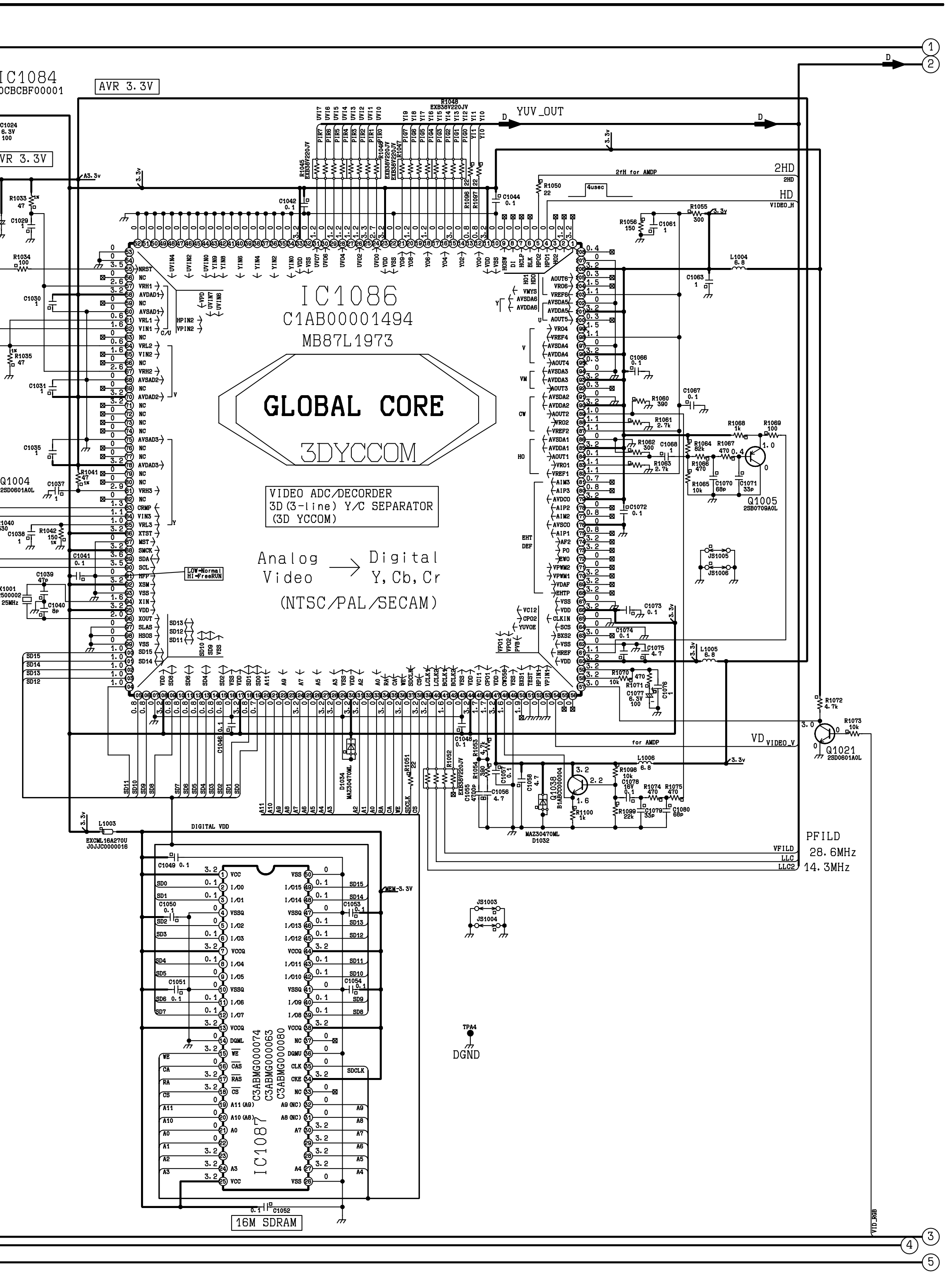
nultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.

ing the chassis.

11.1. A-P.C.Board (PT-L720U/E) (1/5)

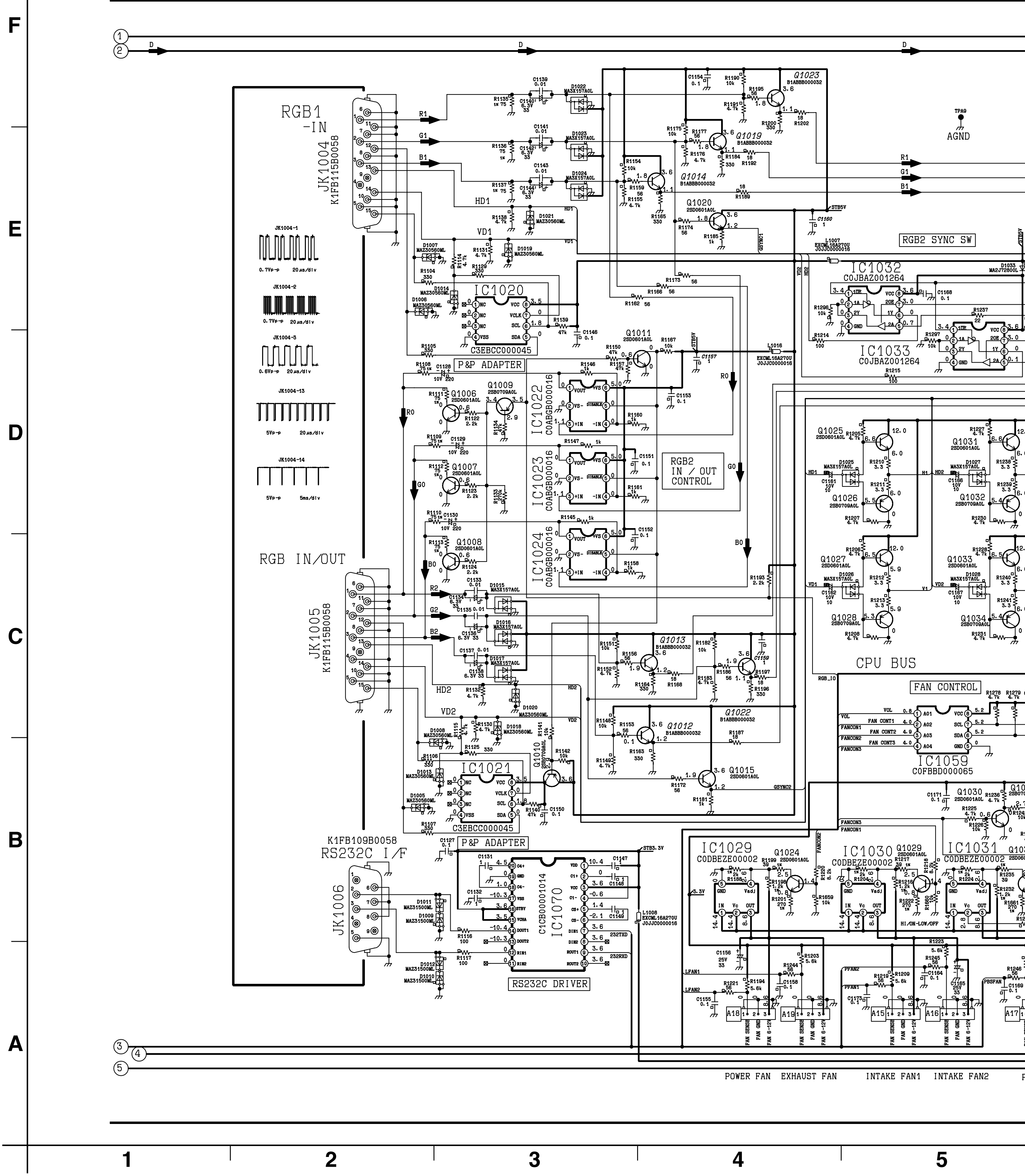
A-P.C.Board TXANP01VJN7 (PT-L720U/E) (1/5)


F
E
D
C
B
A
1
2
3
4
5
JK1001
K1CB204B0004
S-VIDEO_IN
JK1001-2
0.4Vp-p 20µs/div
JK1001-3
1.0Vp-p 20µs/div
JK1002
1.0Vp-p 20µs/div
AUDIO_R_IN
AUDIO_L_IN
VIDEO IN
JK1002
K2HA103A0006
JK1003
K2HC206B0003
RGB
AUDIO-IN
AUDIO_OUT
IC1081
C0CBADC00032
AVR 5V
PQ1R50
Q1002
2SD0601A0L
L1001
EXCML16A270U
J0JJC0000016
IC1082
C1AB00001248
6dB AMP
C_in
TPA1
A-GND
TPA3
IC1083
MM1116XF
C1AB00001226
SW/AMP
Y/VIDEO_in
TPA2
CLAMP
BIAS
6dBAMP
Y.COMP-SW
V1/V2
IC1084
C0CBCBF00001
AVR 3.3V
IC1085
C0CBABC00037
AVR 3.3V
PQ1R33
Q1003
2SK01980RL
2SK01980QL
Q1004
2SD0601A0L
X1001
H0J202500002
20.25MHz
RESET
C
V/Y
VID_YC
SQUEEZE
SDA3
SCL3
CPU BUS
VIDEO-L
VIDEO-R
RGB-R
RGB-L
AUDIO SW
IC1064
C0JBAR000327
AUDIO VOL
IC1065
C0ZBZ0000269
Q1065
2SD0601A0L
AUDIO_SW
L1017
EXCML16A270U
J0JJC0000016
L1061
ERJ6GEY0R00V
Q1001
2SD0601A0L
MUTE
AUDIO AMP
IC1026
C1BB00000646
TDA7056AT
FAN13.5V
JS1001
JS1002
SPEAKER
A9
AUDIO+
AUDIO-
L1003
EXCML16A270U
J0JJC0000016
STB5V
VOL

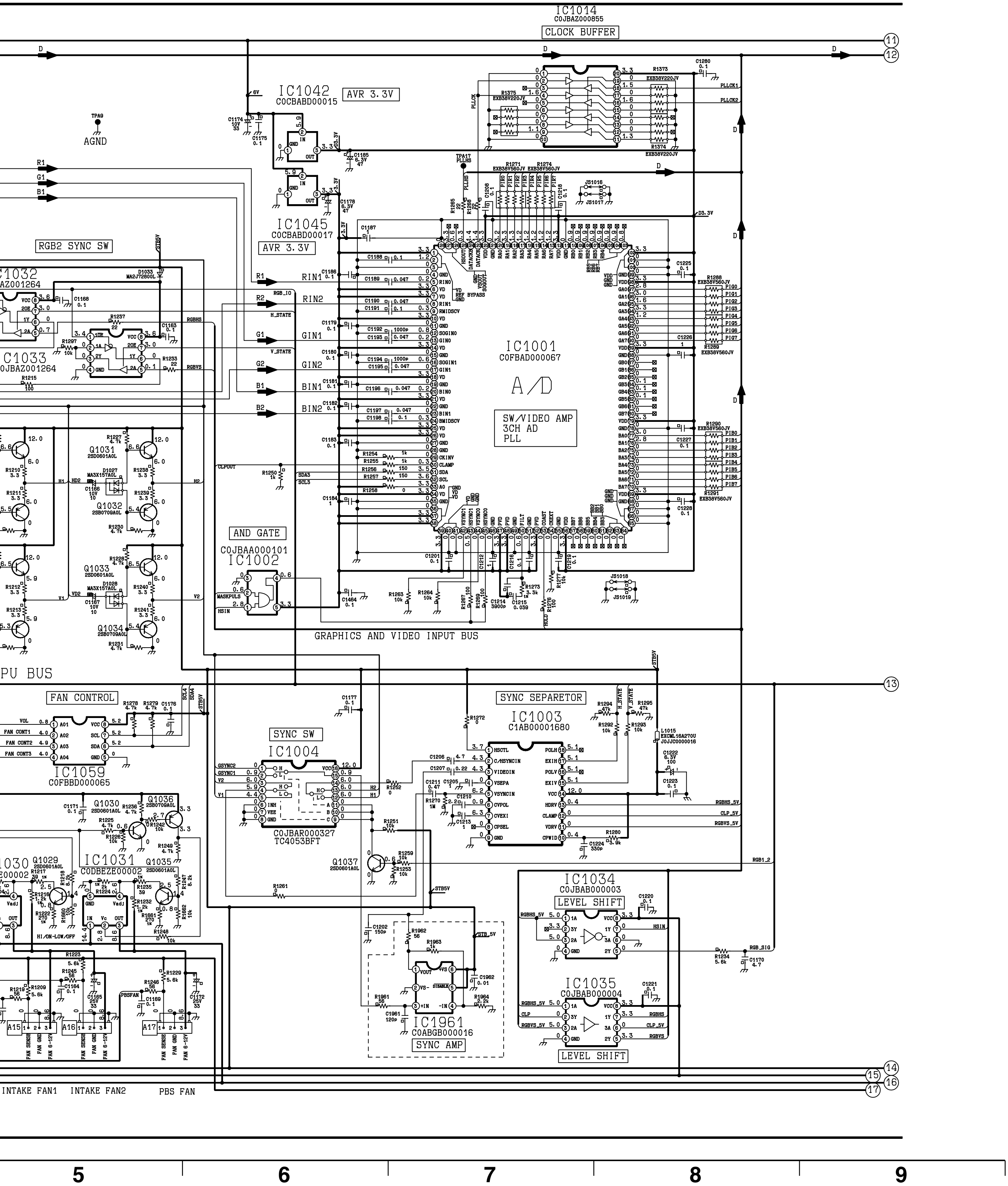

IC1084
AVR 3.3V
YUV_OUT
2HD
HD
VIDEO_H
2fH for AMDP
IC1086
C1AB00001494
MB87L1973
GLOBAL CORE
3DYCCOM
VIDEO ADC/DECORDER
3D (3-line) Y/C SEPARATOR
(3D YCCOM)
Analog Video → Digital Y, Cb, Cr
(NTSC/PAL/SECAM)
LOW=Normal
HI=FreeRUN
Q1004
2SD0601A0L
Q1005
2SB0709A0L
Q1021
2SD0601A0L
Q1038
B1ABCC000004
D1032
MAZ30470ML
D1034
MAZ30470ML
L1003
EXCML16A270U
J0JJC0000016
DIGITAL VDD
VD VIDEO_V
for AMDP
PFILD
VFILD
LLC
LLC2
28.6MHz
14.3MHz
MEM-3.3V
IC1087
C3ABMG000074
C3ABMG000063
C3ABMG000080
16M SDRAM
TPA4
DGND
JS1003
JS1004
JS1005
JS1006
VID_RGB
①
②
③
④
⑤
5
6
7
8
9

11.2. A-P.C.Board (PT-L720U/E) (2/5)

A-P.C.Board TXANP01VJN7 (PT-L720U/E) (2/5)

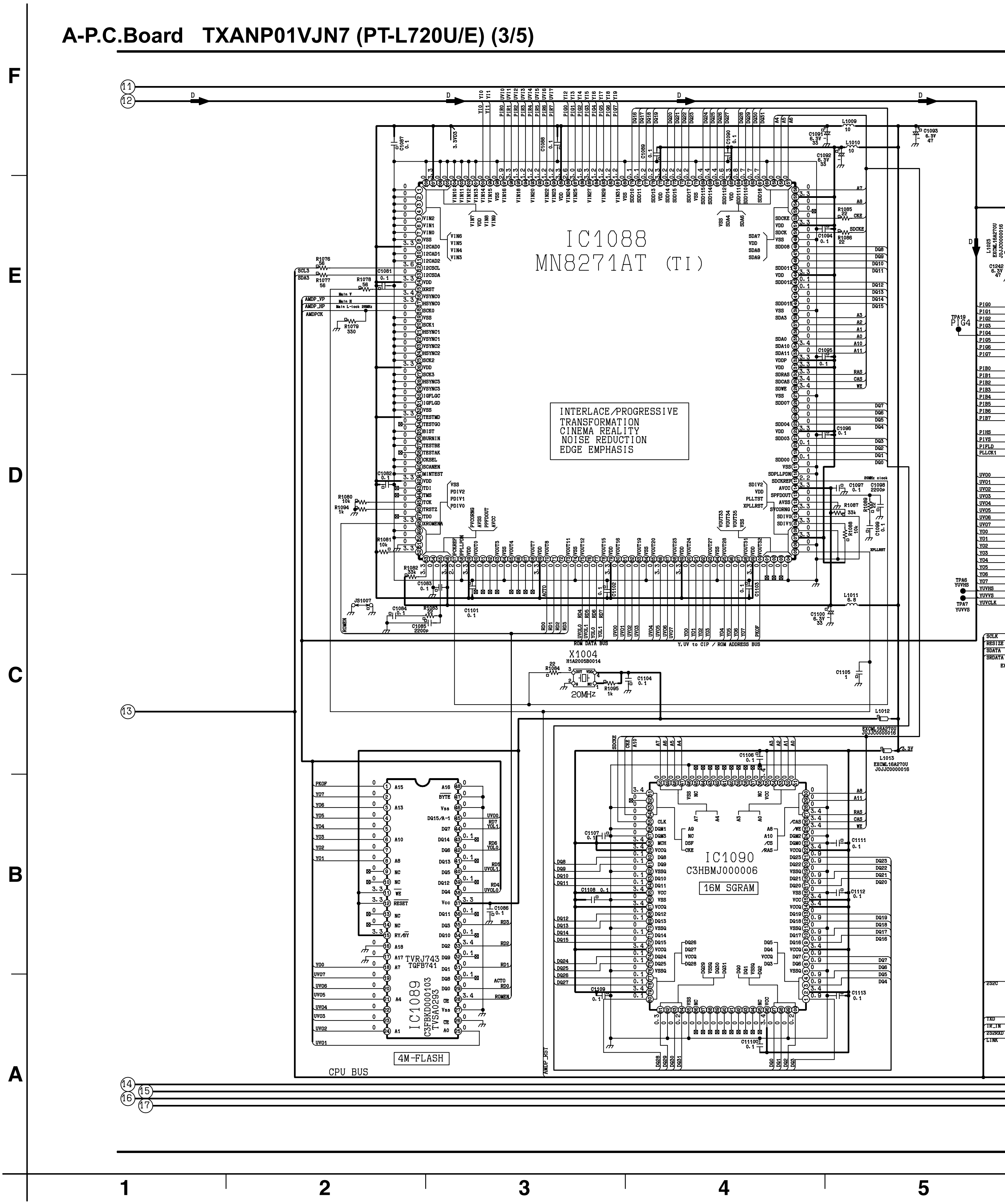


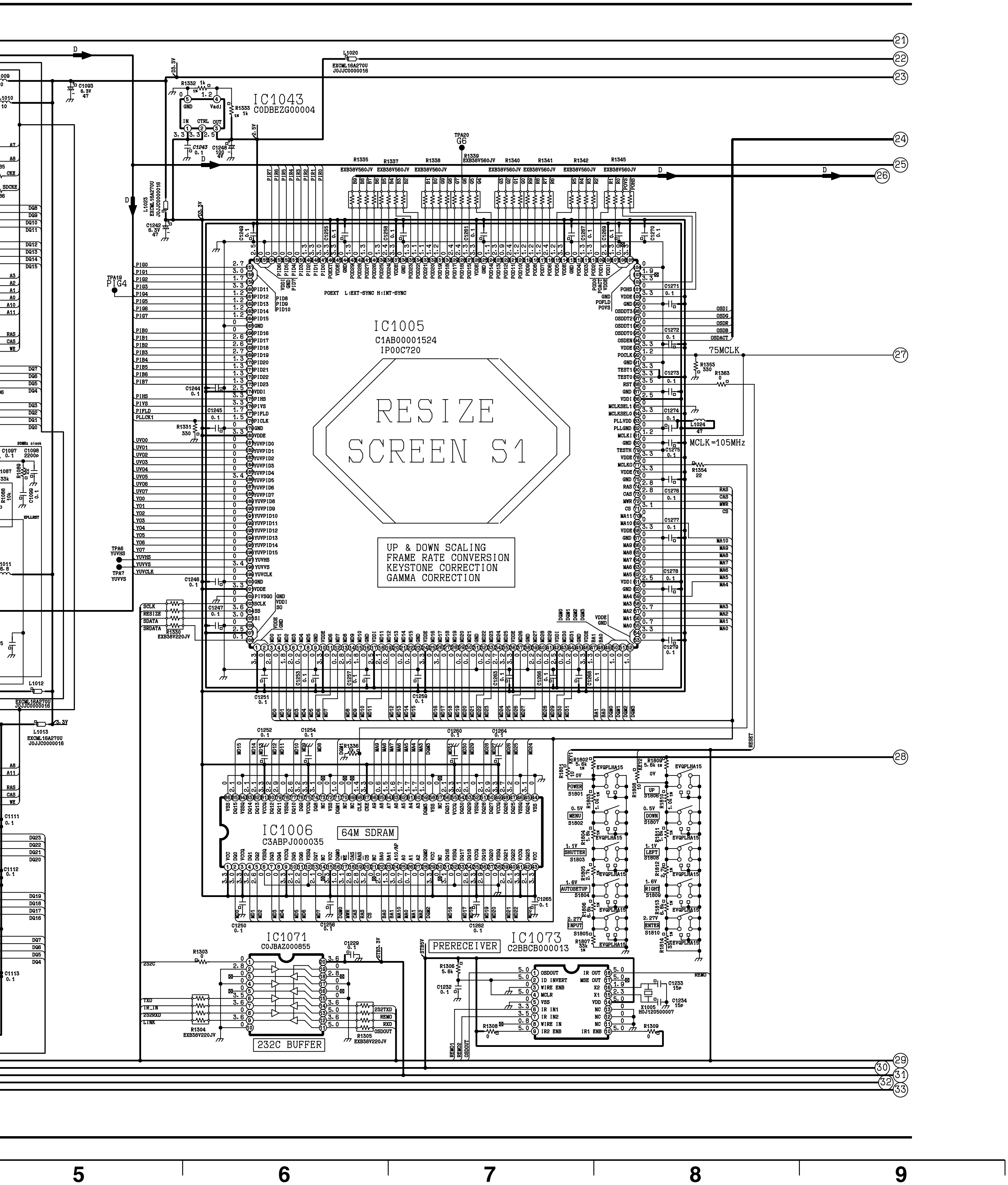
F
E
D
C
B
A
1
2
3
4
5
RGB1 -IN
JK1004
K1FB115B0058
JK1004-1
0.7Vp-p 20µs/div
JK1004-2
0.7Vp-p 20µs/div
JK1004-3
0.6Vp-p 20µs/div
JK1004-13
5Vp-p 20µs/div
JK1004-14
5Vp-p 5ms/div
RGB IN/OUT
JK1005
K1FB115B0058
K1FB109B0058
RS232C I/F
JK1006
IC1020
C3EBCC000045
P&P ADAPTER
IC1021
C3EBCC000045
P&P ADAPTER
IC1022
C0ABGB000016
IC1023
C0ABGB000016
IC1024
C0ABGB000016
RGB2 IN / OUT CONTROL
IC1070
C1CB00001014
RS232C DRIVER
Q1023
Q1019
Q1014
Q1020
Q1011
Q1006
Q1009
Q1007
Q1008
Q1013
Q1012
Q1022
Q1015
Q1010
TPA9
AGND
STB5V
RGB2 SYNC SW
IC1032
C0JBAZ001264
IC1033
C0JBAZ001264
Q1025
Q1031
Q1026
Q1032
Q1027
Q1033
Q1028
Q1034
CPU BUS
FAN CONTROL
IC1059
C0FBBD000065
Q1030
IC1029
C0DBEZE00002
Q1024
IC1030
C0DBEZE00002
Q1029
IC1031
C0DBEZE00002
STB3.3V
A18
A19
A15
A16
A17
POWER FAN
EXHAUST FAN
INTAKE FAN1
INTAKE FAN2


IC1014
C0JBAZ000855
CLOCK BUFFER
IC1042
C0CBABD00015
AVR 3.3V
IC1045
C0CBABD00017
AVR 3.3V
TPA9
AGND
RGB2 SYNC SW
IC1032
IC1033
IC1001
C0FBAD000067
A/D
SW/VIDEO AMP
3CH AD
PLL
RIN1
RIN2
GIN1
GIN2
BIN1
BIN2
AND GATE
C0JBAA000101
IC1002
GRAPHICS AND VIDEO INPUT BUS
Q1031
Q1032
Q1033
Q1034
PU BUS
FAN CONTROL
IC1059
C0FBBD000065
SYNC SW
IC1004
C0JBAR000327
TC4053BFT
SYNC SEPARETOR
IC1003
C1AB00001680
Q1037
IC1030
Q1029
Q1030
Q1036
IC1031
C0DBEZE00002
Q1035
HI/ON-LOW/OFF
IC1961
C0ABGB000016
SYNC AMP
IC1034
C0JBAB000003
LEVEL SHIFT
IC1035
C0JBAB000004
LEVEL SHIFT
A15
A16
A17
INTAKE FAN1
INTAKE FAN2
PBS FAN
11
12
13
14
15
16
17
5
6
7
8
9

11.3. A-P.C.Board (PT-L720U/E) (3/5)

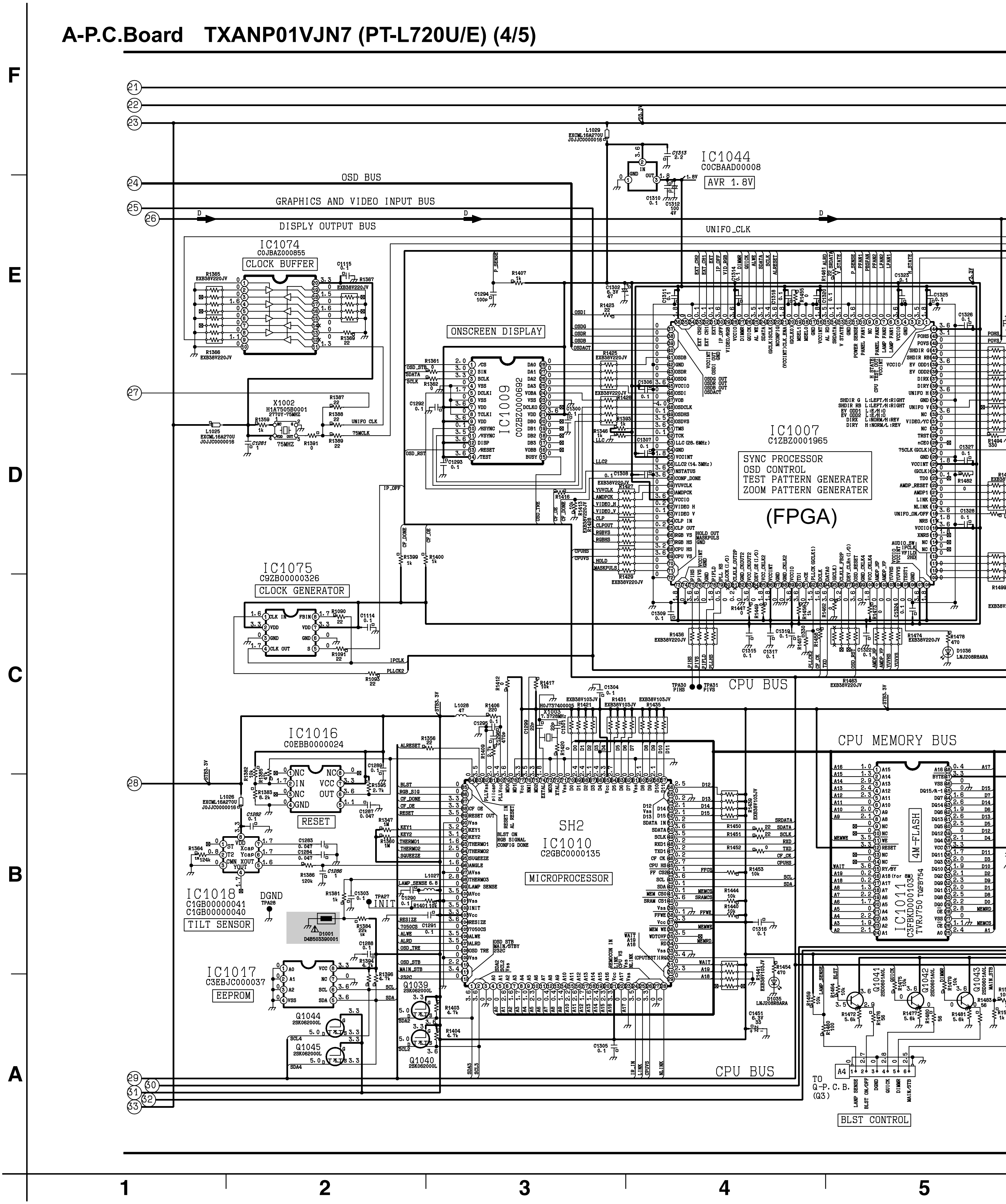
A-P.C.Board TXANP01VJN7 (PT-L720U/E) (3/5)


F
E
D
C
B
A
1
2
3
4
5
IC1088
MN8271AT (TI)
INTERLACE/PROGRESSIVE
TRANSFORMATION
CINEMA REALITY
NOISE REDUCTION
EDGE EMPHASIS
X1004
H1A2005B0014
20MHz
ROM DATA BUS
Y.UV to CIP / ROM ADDRESS BUS
IC1089
C3FBKD000103
TVSA0293
TVRJ743
TGFB741
4M-FLASH
IC1090
C3HBMJ000006
16M SGRAM
CPU BUS
L1013
EXCML16A270U
J0JJC0000016
TPA19
PIG4
TPA6
YUVHS
TPA7
YUVVS

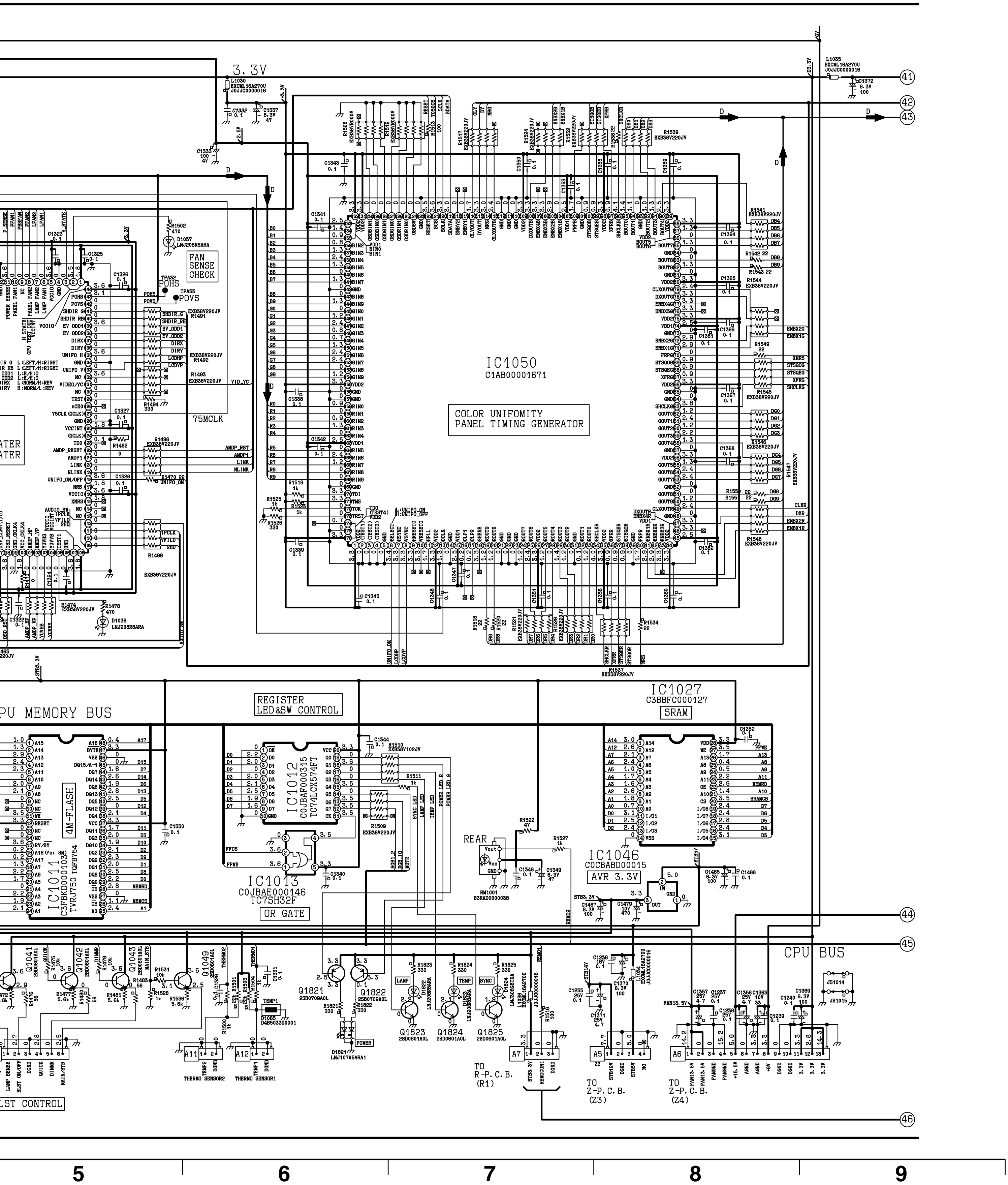

IC1043
C0DBEZG00004
IC1005
C1AB00001524
IP00C720
RESIZE
SCREEN S1
UP & DOWN SCALING
FRAME RATE CONVERSION
KEYSTONE CORRECTION
GAMMA CORRECTION
POEXT L:EXT-SYNC H:INT-SYNC
75MCLK
MCLK=105MHz
IC1006
C3ABPJ000035
64M SDRAM
IC1071
C0JBAZ000855
232C BUFFER
PRERECEIVER
IC1073
C2BBCB000013
POWER
MENU
SHUTTER
AUTOSETUP
INPUT
UP
DOWN
LEFT
RIGHT
ENTER
EVQPLHA15
TPA19
PIG4
TPA20
G6
TPA6
YUVHS
TPA7
YUVVS
L1020
EXCML16A270U
J0JJC0000016
R1330
EXB38V220JV
R1304
R1305
X1005
H0J120500007
(21)
(22)
(23)
(24)
(25)
(26)
(27)
(28)
(29)
(30)
(31)
(32)
(33)
5
6
7
8
9

11.4. A-P.C.Board (PT-L720U/E) (4/5)

A-P.C.Board TXANP01VJN7 (PT-L720U/E) (4/5)



F
E
D
C
B
A
1
2
3
4
5
OSD BUS
GRAPHICS AND VIDEO INPUT BUS
DISPLY OUTPUT BUS
UNIFO_CLK
IC1044
C0CBAAD00008
AVR 1.8V
IC1074
C0JBAZ000855
CLOCK BUFFER
X1002
H1A7505B0001
75MHZ
ONSCREEN DISPLAY
IC1009
C0ZBZ0000692
IC1007
C1ZBZ0001965
SYNC PROCESSOR
OSD CONTROL
TEST PATTERN GENERATER
ZOOM PATTERN GENERATER
(FPGA)
IC1075
C9ZB00000326
CLOCK GENERATOR
CPU BUS
IC1016
C0EBB0000024
RESET
SH2
IC1010
C2GBC0000135
MICROPROCESSOR
X1003
IC1018
C1GB00000041
C1GB00000040
TILT SENSOR
DGND
INIT
D1001
B4B503390001
IC1017
C3EBJC000037
EEPROM
Q1039
Q1040
Q1044
Q1045
CPU MEMORY BUS
IC1011
C3FBKD000103
TVRJ750 TQFB754
4M-FLASH
Q1041
Q1042
Q1043
D1035
D1036
BLST CONTROL
TO Q-P.C.B. (Q3)


3.3V
IC1050
C1AB00001671
COLOR UNIFOMITY
PANEL TIMING GENERATOR
FAN
SENSE
CHECK
75MCLK
POHS
POVS
L1030
L1035
D1037
D1036
CPU MEMORY BUS
REGISTER
LED&SW CONTROL
IC1027
C3BBFC000127
SRAM
IC1011
C3FBKD000103
TVRJ750 TQFB754
4M-FLASH
IC1012
C0JBAF000315
TC74LCX574FT
IC1013
C0JBAE000146
TC7SH32F
OR GATE
IC1046
C0CBABD00015
AVR 3.3V
REAR
RM1001
CPU BUS
Q1041
Q1042
Q1043
Q1049
Q1821
Q1822
Q1823
Q1824
Q1825
LAMP
TEMP
SYNC
POWER
TEMP1
A11
A12
A7
A5
A6
THERMO SENSOR2
THERMO SENSOR1
BLST CONTROL
TO
R-P.C.B.
(R1)
TO
Z-P.C.B.
(Z3)
TO
Z-P.C.B.
(Z4)
41
42
43
44
45
46
5
6
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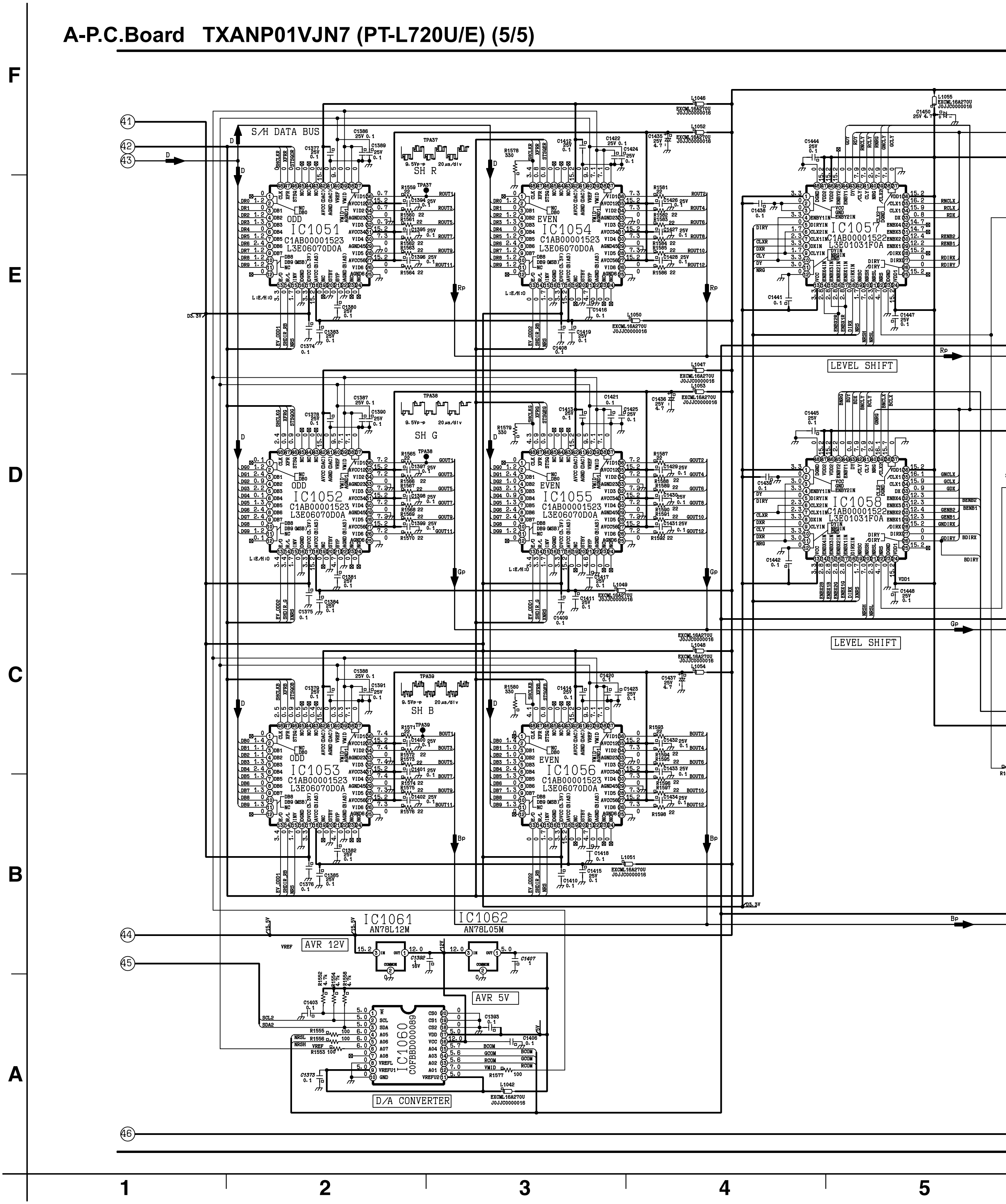
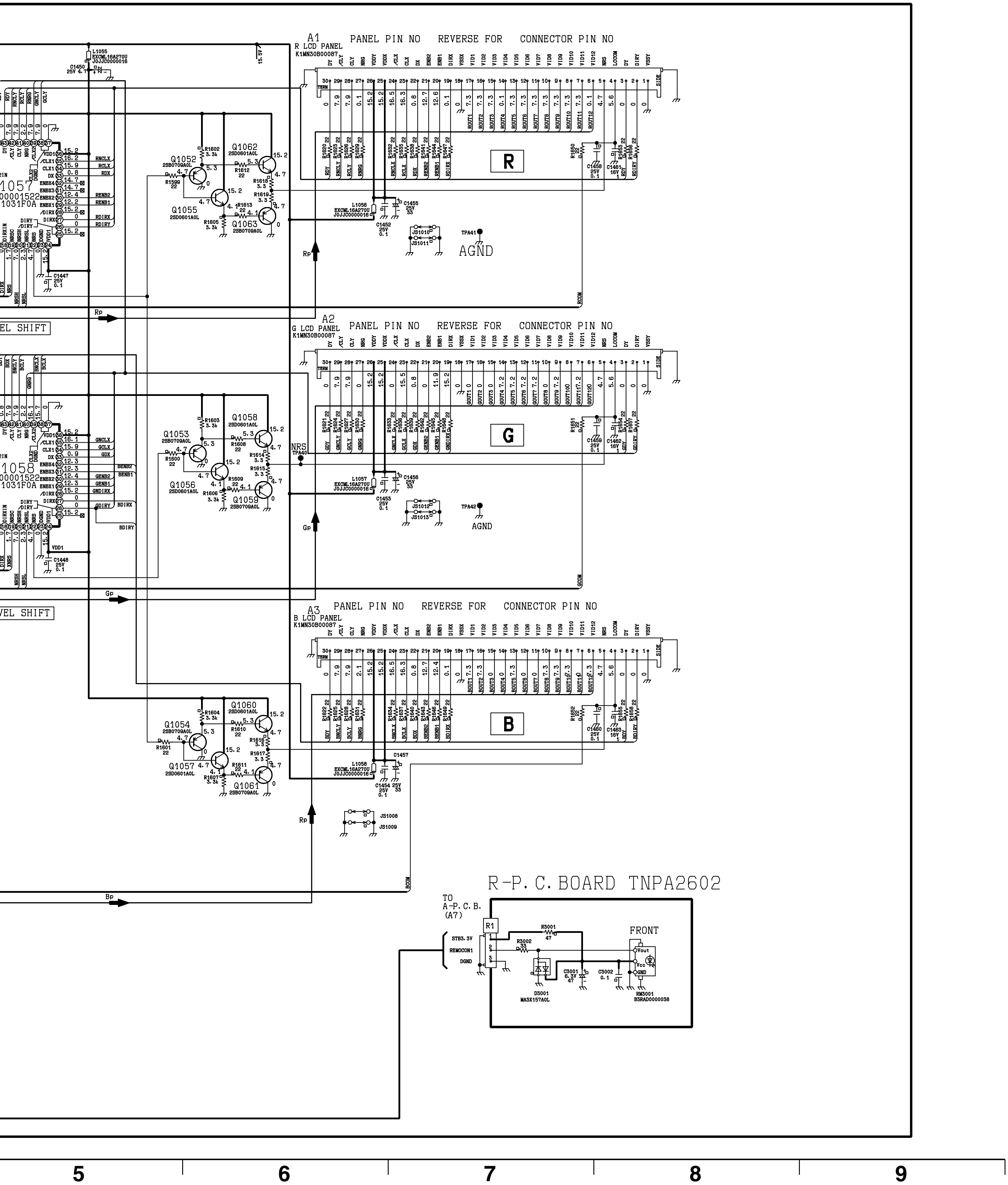
8
9

11.5. A-P.C.Board (PT-L720U/E) (5/5)

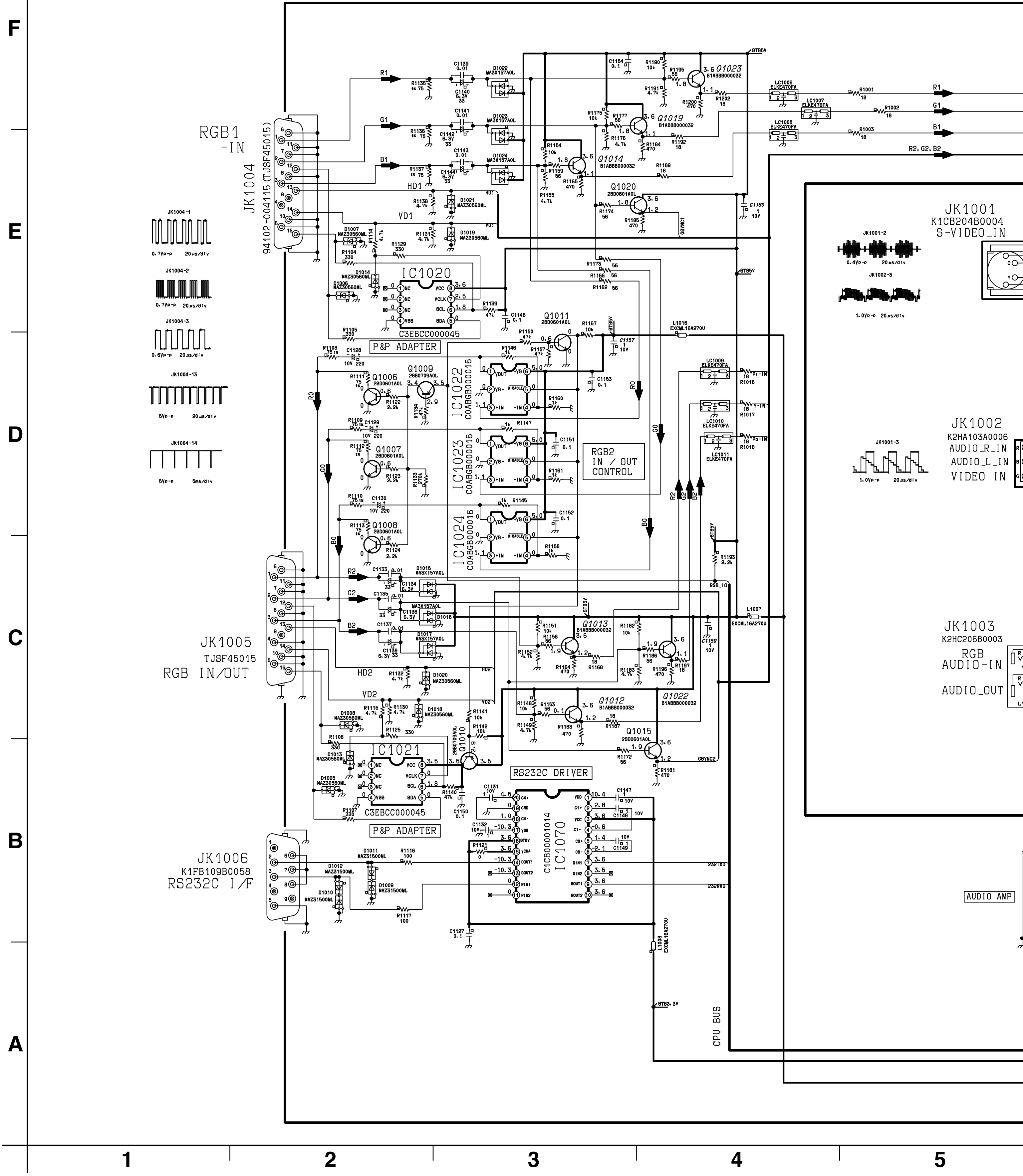
A-P.C.Board TXANP01VJN7 (PT-L720U/E) (5/5)

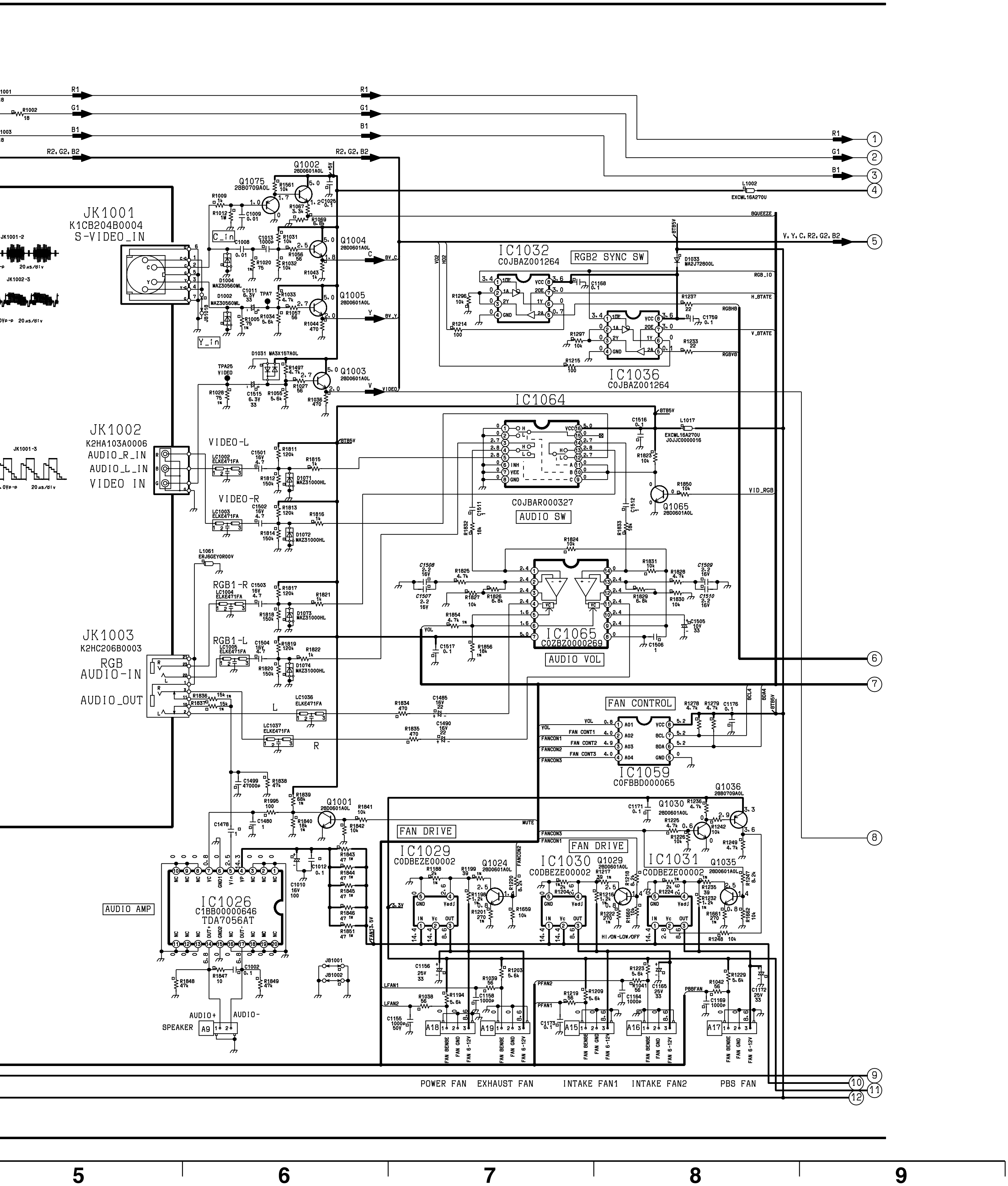

F
E
D
C
B
A
1
2
3
4
5
41
42
43
44
45
46
S/H DATA BUS
SH R
SH G
SH B
IC1051
IC1052
IC1053
IC1054
IC1055
IC1056
IC1057
IC1058
ODD
EVEN
C1AB00001523
L3E06070D0A
C1AB00001522
L3E01031F0A
LEVEL SHIFT
IC1061
AN78L12M
IC1062
AN78L05M
AVR 12V
AVR 5V
IC1060
C0FBBD000089
D/A CONVERTER
TPA37
TPA38
TPA39
9.5Vp-p
20µs/div
Rp
Gp
Bp
D3.3V
EXCML16A270U
J0JJC0000016


A1
R LCD PANEL
K1MN30B00087
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
A2
G LCD PANEL
K1MN30B00087
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
A3
B LCD PANEL
K1MN30B00087
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
R
G
B
Q1052
Q1055
Q1062
Q1063
Q1053
Q1056
Q1058
Q1059
Q1054
Q1057
Q1060
Q1061
2SB0709A0L
2SD0601A0L
L1055
L1056
L1057
L1058
EXCML16A270U
J0JJC0000016
TPA41
TPA42
TPA40
NRS
AGND
JS1010
JS1011
JS1012
JS1013
JS1008
JS1009
RCOM
GCOM
BCOM
Rp
Gp
Bp
15.5V
EL SHIFT
VEL SHIFT
R-P.C. BOARD TNPA2602
TO
A-P.C.B.
(A7)
R1
STB3.3V
REMOCON1
DGND
R3001
47
R3002
33
D3001
MA3X157A0L
C3001
6.3V
47
C3002
0.1
FRONT
Vout
Vcc
GND
RM3001
B3RAD0000038
5
6
7
8
9

11.6. A-P.C.Board (PT-L520U/E) (1/5)

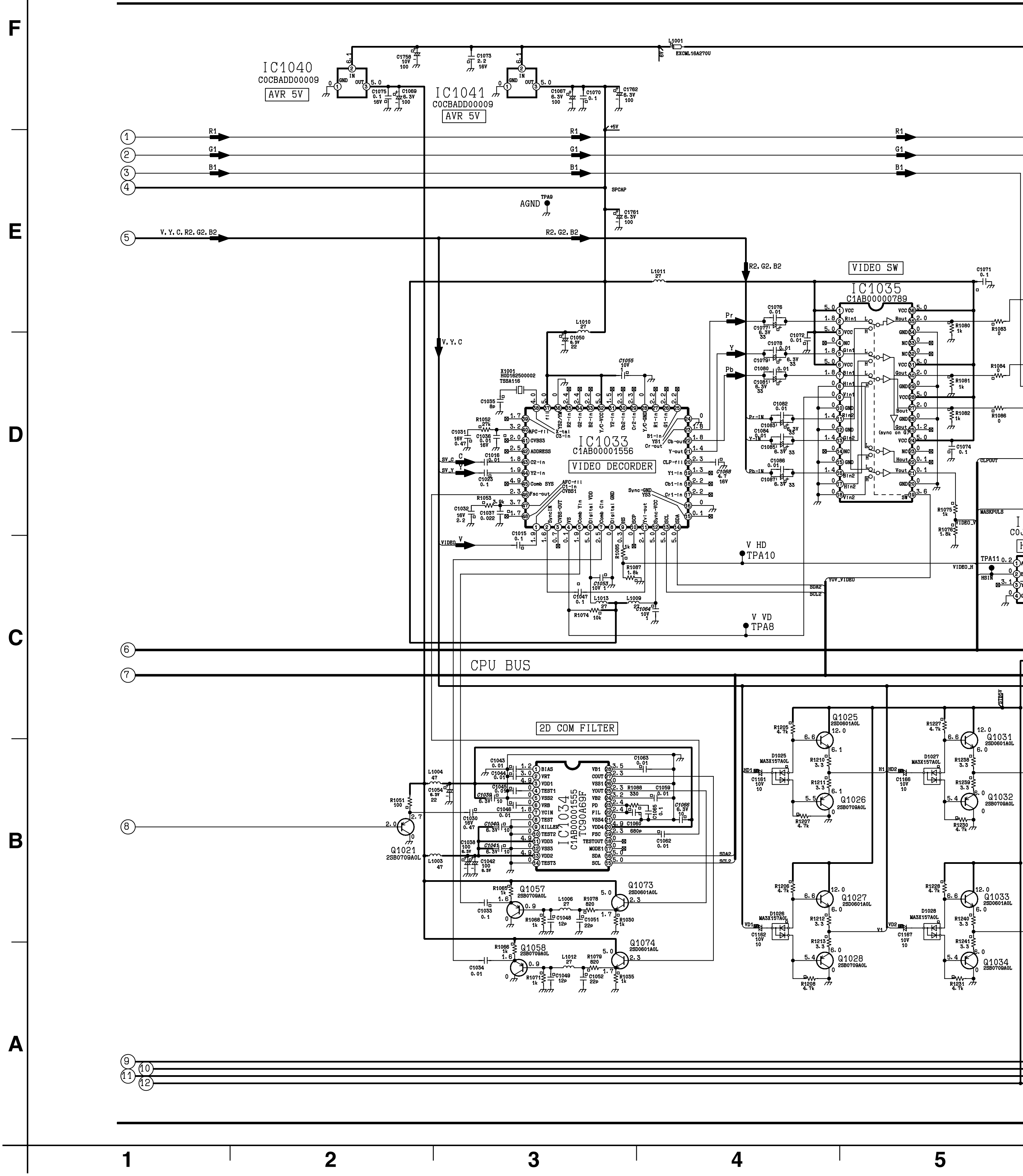
A-P.C.Board TXANP01VJN8 (PT-L520U/E) (1/5)

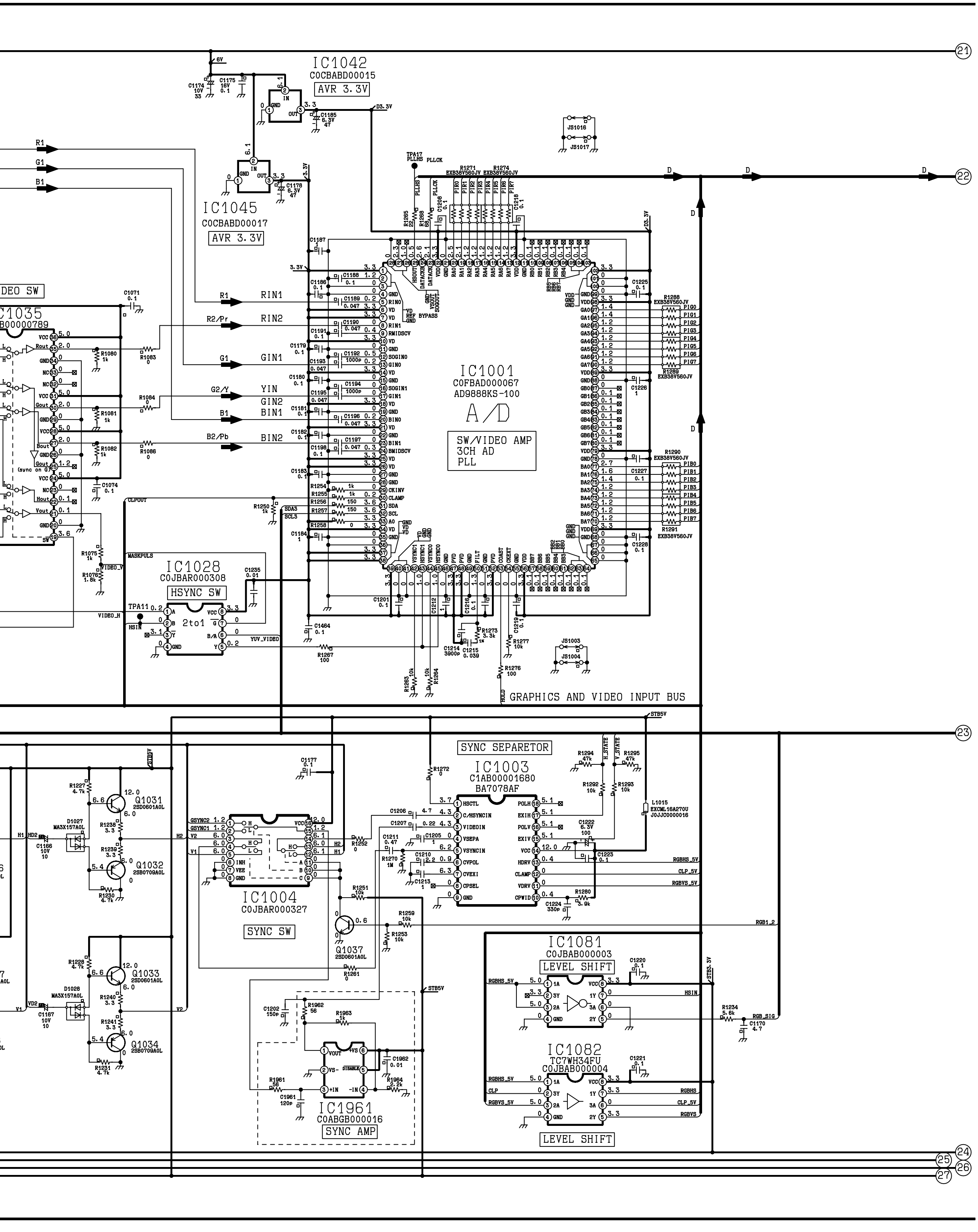

F
E
D
C
B
A
1
2
3
4
5
RGB1 -IN
JK1004
94102-004115 (TJSF45015)
JK1004-1
0.7Vp-p 20µs/div
JK1004-2
0.7Vp-p 20µs/div
JK1004-3
0.6Vp-p 20µs/div
JK1004-13
5Vp-p 20µs/div
JK1004-14
5Vp-p 5ms/div
R1
G1
B1
HD1
VD1
R1135 1k 75
R1136 1k 75
R1137 1k 75
C1139 0.01
C1140 6.3V 33
C1141 0.01
C1142 6.3V 33
C1143 0.01
C1144 6.3V 33
D1022 MA3X157A0L
D1023 MA3X157A0L
D1024 MA3X157A0L
D1021 MAZ30560ML
D1019 MAZ30560ML
D1007 MAZ30560ML
D1014 MAZ30560ML
D1006 MAZ30560ML
R1138 4.7k
R1131 4.7k
R1114 4.7k
R1129 330
R1104 330
R1105 330
IC1020
C3EBCC000045
P&P ADAPTER
NC
VCC
VCLK
SCL
SDA
VSS
R1139 47k
C1146 0.1
Q1011 2SD0601A0L
R1150 47k
R1157 47k
R1146 1k
R1167 10k
C1157 1 10V
L1016 EXCML16A270U
STB5V
C1154 0.1
R1190 10k
R1195 56
R1191 4.7k
R1200 470
R1202 18
Q1023 B1ABB8000032
Q1019 B1ABB8000032
Q1014 B1ABB8000032
Q1020 2SD0601A0L
R1175 10k
R1177 56
R1176 4.7k
R1184 470
R1192 18
R1154 10k
R1159 56
R1165 470
R1155 4.7k
R1189 18
R1174 56
R1185 470
C1160 1 10V
GSYNC1
R1173 56
R1166 56
R1162 56
LC1006 ELKE470FA
LC1007 ELKE470FA
LC1008 ELKE470FA
R1001 18
R1002 18
R1003 18
R2, G2, B2
JK1001
K1CB204B0004
S-VIDEO_IN
JK1001-2
0.4Vp-p 20µs/div
JK1002-3
1.0Vp-p 20µs/div
JK1002
K2HA103A0006
AUDIO_R_IN
AUDIO_L_IN
VIDEO IN
JK1001-3
1.0Vp-p 20µs/div
JK1003
K2HC206B0003
RGB AUDIO-IN
AUDIO_OUT
AUDIO AMP
LC1009 ELKE470FA
LC1010 ELKE470FA
LC1011 ELKE470FA
Pr-IN
Y-IN
Pb-IN
R1016 18
R1017 18
R1018 18
R1193 2.2k
RGB_IO
L1007 EXCML16A270U
C1159 1 10V
R1108 75 1k
C1128 10V 220
Q1006 2SD0601A0L
R1111 75 1k
R1122 2.2k
Q1009 2SB0709A0L
R1134 47k
R1109 75 1k
C1129 10V 220
Q1007 2SD0601A0L
R1112 75 1k
R1123 2.2k
R1133 270k
R1110 75 1k
C1130 10V 220
Q1008 2SD0601A0L
R1113 75 1k
R1124 2.2k
IC1022 C0ABGB000016
IC1023 C0ABGB000016
IC1024 C0ABGB000016
YOUT
VS
YB-
DISABLE
+IN
-IN
R1160 1k
R1147 1k
R1161 1k
R1145 1k
R1158 1k
C1151 0.1
C1152 0.1
C1153 0.1
RGB2 IN / OUT CONTROL
R0
G0
B0
R2
G2
B2
JK1005
TJSF45015
RGB IN/OUT
C1133 0.01
C1134 6.3V 33
C1135 0.01
C1136 6.3V 33
C1137 0.01
C1138 6.3V 33
D1015 MA3X157A0L
D1016 MA3X157A0L
D1017 MA3X157A0L
HD2
VD2
R1132 4.7k
D1020 MAZ30560ML
R1115 4.7k
R1130 4.7k
D1018 MAZ30560ML
D1008 MAZ30560ML
R1125 330
R1106 330
D1013 MAZ30560ML
D1005 MAZ30560ML
R1107 330
IC1021
C3EBCC000045
P&P ADAPTER
R1141 10k
R1142 10k
Q1010 2SB0709A0L
R1140 47k
C1150 0.1
Q1013 B1ABB8000032
R1151 10k
R1156 56
R1152 4.7k
R1164 470
R1168 18
R1182 10k
R1186 56
R1183 4.7k
R1196 470
R1197 18
Q1022 B1ABB8000032
Q1012 B1ABB8000032
R1148 10k
R1153 56
R1149 4.7k
R1163 470
R1187 18
Q1015 2SD0601A0L
R1172 56
R1181 470
GSYNC2
RS232C DRIVER
IC1070
C1CB00001014
C1131 1 10V
C1132 1 10V
C1147 1 10V
C1148 1 10V
C1149 1 10V
R1121 0
C4+
GND
C4-
VSS
STBY
VCHA
DOUT1
DOUT2
RIN1
RIN2
VDD
C1+
VCC
C1-
CB+
CB-
DIN1
DIN2
ROUT1
ROUT2
232TXD
232RXD
JK1006
K1FB109B0058
RS232C I/F
D1011 MAZ31500ML
D1012 MAZ31500ML
D1009 MAZ31500ML
D1010 MAZ31500ML
R1116 100
R1117 100
C1127 0.1
L1008 EXCML16A270U
STB3.3V
CPU BUS


JK1001
K1CB204B0004
S-VIDEO_IN
JK1002
K2HA103A0006
AUDIO_R_IN
AUDIO_L_IN
VIDEO IN
JK1003
K2HC206B0003
RGB
AUDIO-IN
AUDIO_OUT
VIDEO-L
VIDEO-R
RGB1-R
RGB1-L
C_in
Y_in
Q1075
Q1002
Q1004
Q1005
Q1003
IC1032
C0JBAZ001264
RGB2 SYNC SW
IC1036
C0JBAZ001264
IC1064
C0JBAR000327
AUDIO SW
IC1065
C0ZBZ0000269
AUDIO VOL
FAN CONTROL
IC1059
C0FBBD000065
Q1036
Q1030
Q1001
FAN DRIVE
IC1029
C0DBEZE00002
Q1024
IC1030
C0DBEZE00002
Q1029
IC1031
C0DBEZE00002
Q1035
AUDIO AMP
IC1026
C1BB00000646
TDA7056AT
Q1065
SPEAKER
AUDIO+
AUDIO-
POWER FAN
EXHAUST FAN
INTAKE FAN1
INTAKE FAN2
PBS FAN
R1
G1
B1
R2, G2, B2
Y, Y, C, R2, G2, B2
SQUEEZE
VID_RGB
H_STATE
V_STATE
MUTE
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
5
6
7
8
9

11.7. A-P.C.Board (PT-L520U/E) (2/5)

A-P.C.Board TXANP01VJN8 (PT-L520U/E) (2/5)


F
E
D
C
B
A
1
2
3
4
5
IC1040
C0CBADD00009
AVR 5V
IC1041
C0CBADD00009
AVR 5V
L1001
EXCML16A270U
R1
G1
B1
SPCAP
AGND
TPA9
V, Y, C, R2, G2, B2
R2, G2, B2
V, Y, C
VIDEO SW
IC1035
C1AB00000789
Pr
Y
Pb
IC1033
C1AB00001556
VIDEO DECORDER
X1001
H0D162500002
V HD
TPA10
V VD
TPA8
CPU BUS
2D COM FILTER
IC1034
C1AB00001555
TC90A69F
Q1021
2SB0709A0L
Q1057
2SB0709A0L
Q1058
2SB0709A0L
Q1073
2SD0601A0L
Q1074
2SD0601A0L
Q1025
2SD0601A0L
Q1026
2SB0709A0L
Q1027
2SD0601A0L
Q1028
2SB0709A0L
Q1031
2SD0601A0L
Q1032
2SB0709A0L
Q1033
2SD0601A0L
Q1034
2SB0709A0L
D1025
MA3X157A0L
D1026
MA3X157A0L
D1027
MA3X157A0L
D1028
MA3X157A0L
SDA2
SCL2
YUV_VIDEO
CLPOUT
MASKPULS
VIDEO_V
VIDEO_H
TPA11
HSIN
HD1
HD2
VD1
VD2
STB5V


IC1042
C0CBABD00015
AVR 3.3V
IC1045
C0CBABD00017
AVR 3.3V
D3.3V
6V
R1
G1
B1
R2/Pr
G2/Y
B2/Pb
RIN1
RIN2
GIN1
YIN
GIN2
BIN1
BIN2
DEO SW
C1035
B00000789
IC1001
C0FBAD000067
AD9888KS-100
A/D
SW/VIDEO AMP
3CH AD
PLL
TPA17
PLLHS
PLLCK
R1271 EXB38V560JV
R1274 EXB38V560JV
JS1016
JS1017
R1288 EXB38V560JV
R1289 EXB38V560JV
R1290 EXB38V560JV
R1291 EXB38V560JV
D
IC1028
C0JBAR000308
HSYNC SW
2to1
TPA11
HSIN
VIDEO_H
YUV_VIDEO
CLPOUT
MASKPULS
SDA3
SCL3
JS1003
JS1004
GRAPHICS AND VIDEO INPUT BUS
STB5V
SYNC SEPARETOR
IC1003
C1AB00001680
BA7078AF
L1015
EXCML16A270U
J0JJC0000016
RGBHS_5V
CLP_5V
RGBVS_5V
RGB1_2
Q1031
2SD0601A0L
Q1032
2SB0709A0L
Q1033
2SD0601A0L
Q1034
2SB0709A0L
D1027
MA3X157A0L
D1028
MA3X157A0L
IC1004
C0JBAR000327
SYNC SW
Q1037
2SD0601A0L
IC1081
C0JBAB000003
LEVEL SHIFT
IC1082
TC7WH34FU
C0JBAB000004
LEVEL SHIFT
HSIN
RGB_SIG
RGBHS
CLP_5V
RGBVS
IC1961
C0ABGB000016
SYNC AMP
㉑
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㉔
㉕
㉖
㉗
5
6
7
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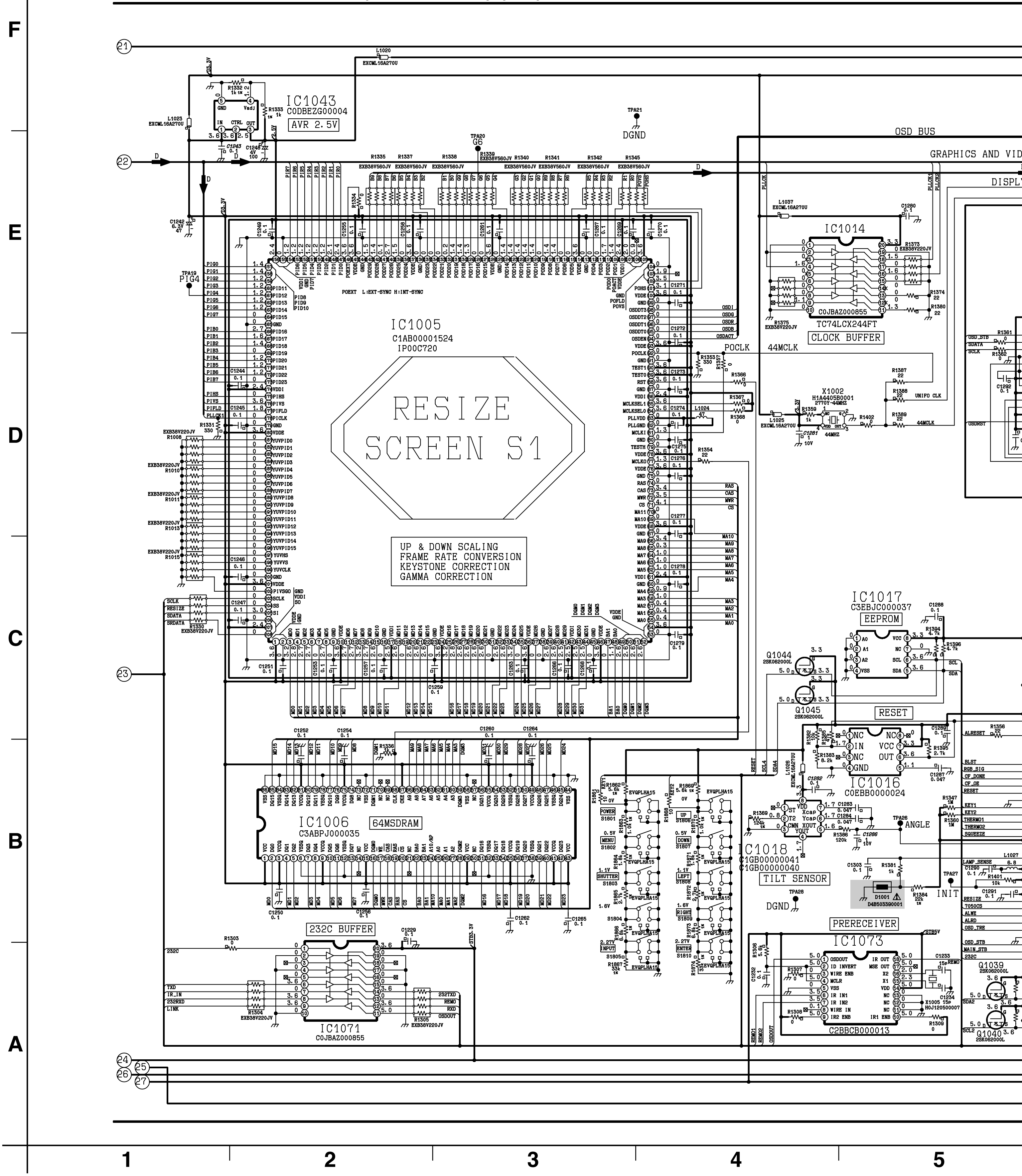
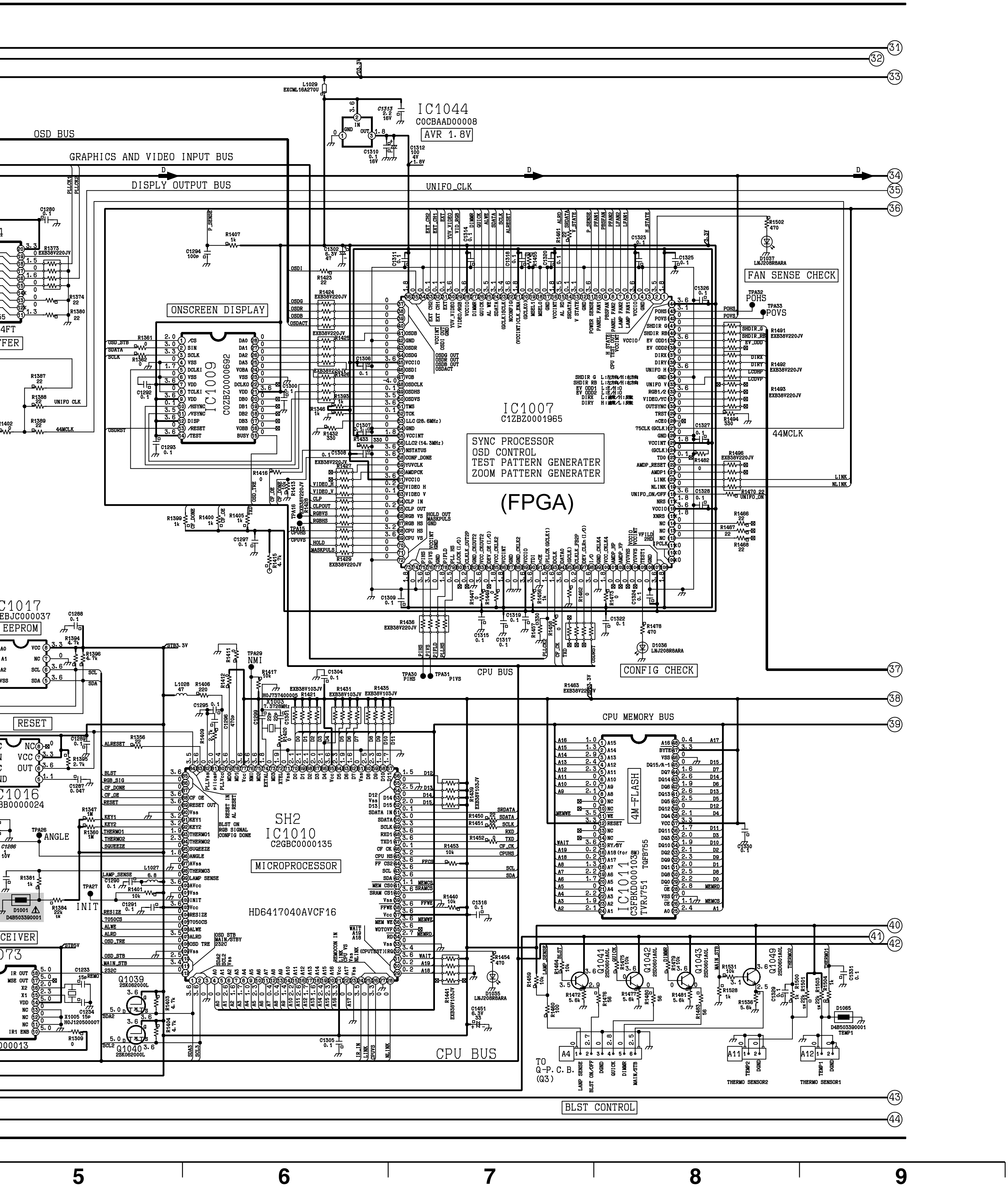
11.8. A-P.C.Board (PT-L520U/E) (3/5)

A-P.C.Board TXANP01VJN8 (PT-L520U/E) (3/5)



F
E
D
C
B
A
1
2
3
4
5
21
22
23
24
25
26
27
L1020
EXCML16A270U
IC1043
C0DBEZG00004
AVR 2.5V
L1023
EXCML16A270U
TPA21
DGND
TPA20
G6
OSD BUS
GRAPHICS AND VID
DISPL
IC1014
C0JBAZ000855
TC74LCX244FT
CLOCK BUFFER
L1037
EXCML16A270U
TPA19
PIG4
IC1005
C1AB00001524
IP00C720
POEXT L:EXT-SYNC H:INT-SYNC
RESIZE
SCREEN S1
UP & DOWN SCALING
FRAME RATE CONVERSION
KEYSTONE CORRECTION
GAMMA CORRECTION
POCLK
44MCLK
X1002
H1A4405B0001
44MHZ
UNIFO CLK
44MCLK
L1024
L1025
EXCML16A270U
IC1017
C3EBJC000037
EEPROM
Q1044
2SK062000L
Q1045
2SK062000L
RESET
IC1016
C0EBB0000024
IC1006
C3ABPJ000035
64MSDRAM
POWER S1801
MENU S1802
SHUTTER S1803
S1804
INPUT S1805
UP S1806
DOWN S1807
LEFT S1808
RIGHT S1809
ENTER S1810
EVQPLHA15
IC1018
C1GB00000041
C1GB00000040
TILT SENSOR
TPA26
ANGLE
TPA27
INIT
TPA28
DGND
D1001
D4B503390001
PRERECEIVER
IC1073
C2BBCB000013
232C BUFFER
IC1071
C0JBAZ000855
Q1039
2SK062000L
Q1040
2SK062000L
X1005
H0J120500007
L1027


IC1044
C0CBAAD00008
AVR 1.8V
OSD BUS
GRAPHICS AND VIDEO INPUT BUS
DISPLY OUTPUT BUS
UNIFO_CLK
ONSCREEN DISPLAY
IC1009
C0ZBZ000692
IC1007
C1ZBZ0001965
SYNC PROCESSOR
OSD CONTROL
TEST PATTERN GENERATER
ZOOM PATTERN GENERATER
(FPGA)
FAN SENSE CHECK
CONFIG CHECK
44MCLK
CPU BUS
CPU MEMORY BUS
SH2
IC1010
C2GBC0000135
MICROPROCESSOR
HD6417040AVCF16
IC1011
C3FBKD000103
TVRJ751
TQFB755
4M-FLASH
IC1017
EEPROM
RESET
IC1016
ANGLE
INIT
CEIVER
Q1039
Q1040
Q1041
Q1042
Q1043
Q1049
TO
Q-P.C.B.
(Q3)
THERMO SENSOR2
THERMO SENSOR1
BLST CONTROL
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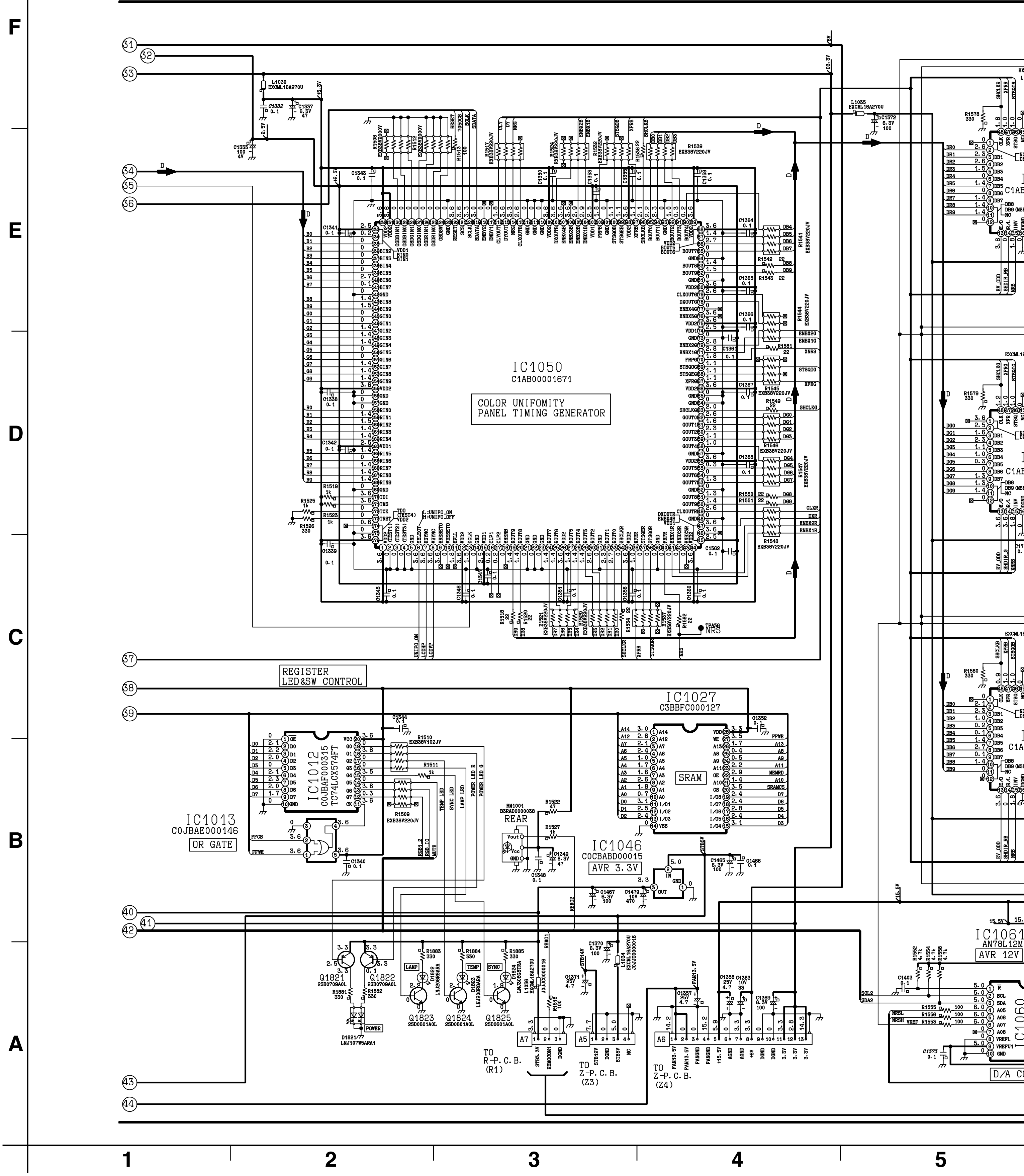
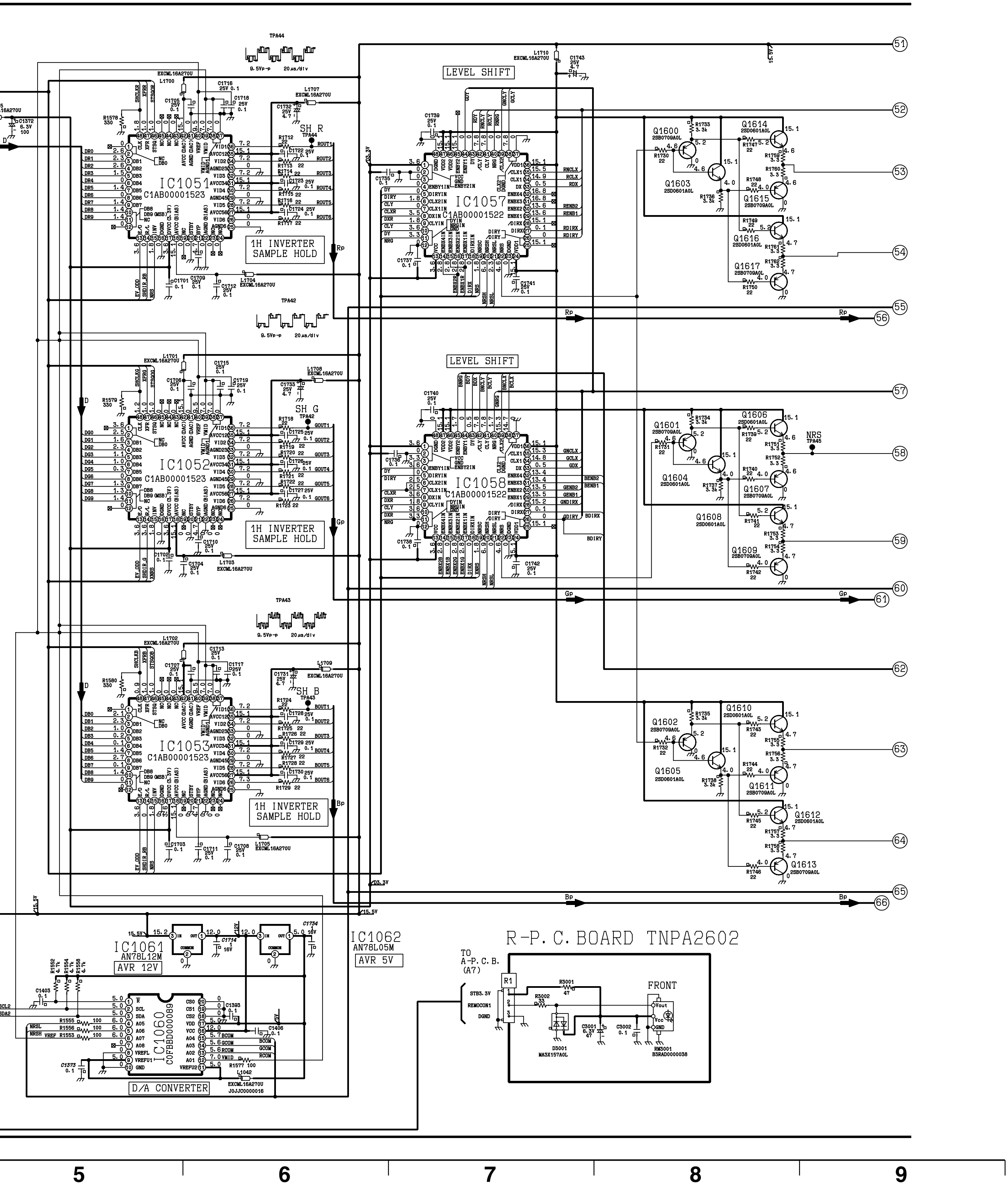
11.9. A-P.C.Board (PT-L520U/E) (4/5)

A-P.C.Board TXANP01VJN8 (PT-L520U/E) (4/5)

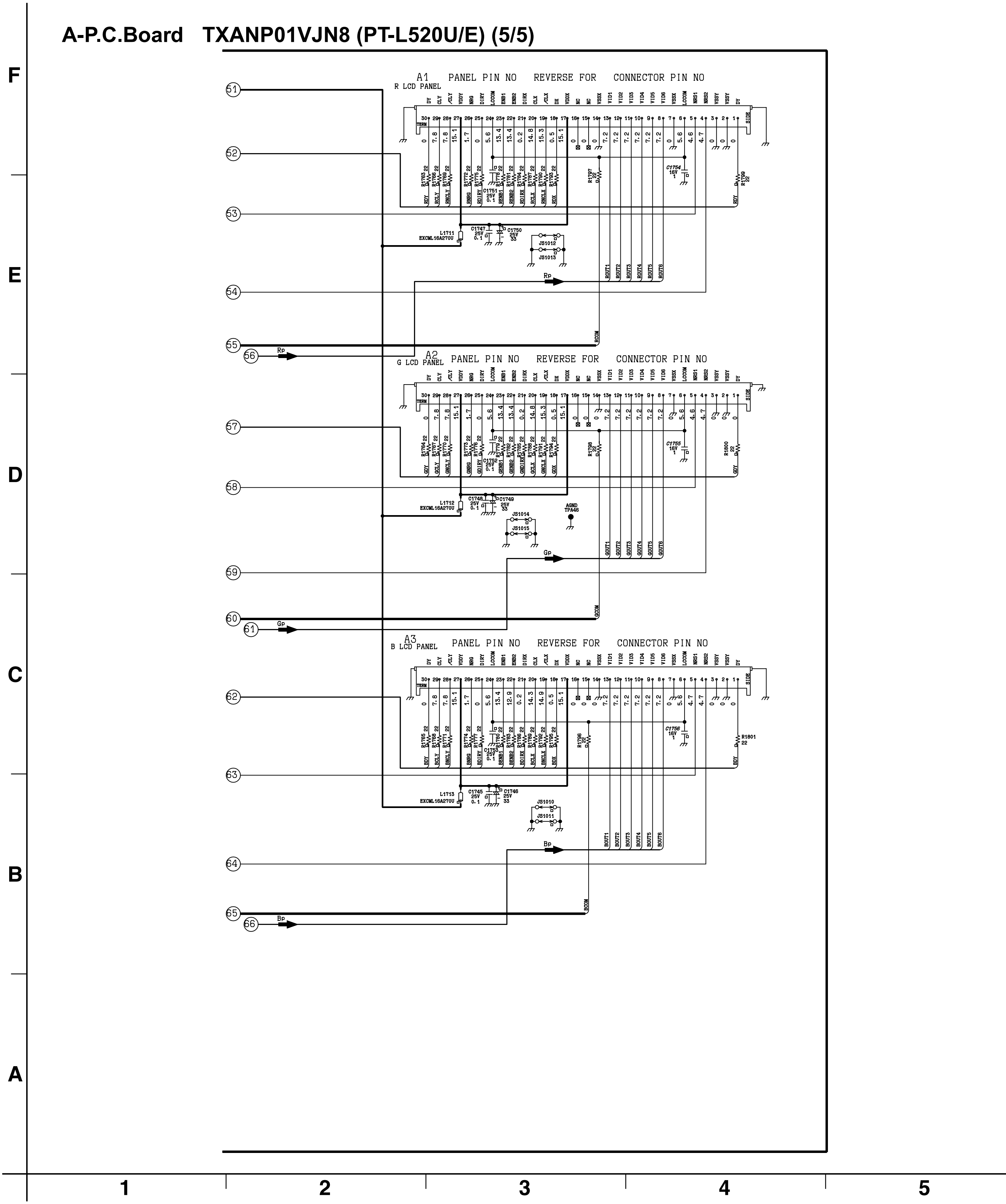

F
E
D
C
B
A
1
2
3
4
5
31
32
33
34
35
36
37
38
39
40
41
42
43
44
IC1050
C1AB00001671
COLOR UNIFOMITY
PANEL TIMING GENERATOR
L1030
EXCML16A270U
L1035
EXCML16A270U
REGISTER
LED&SW CONTROL
IC1012
C0JBAF000315
TC74LCX574FT
IC1013
C0JBAE000146
OR GATE
IC1027
C3BBFC000127
SRAM
IC1046
C0CBABD00015
AVR 3.3V
IC1061
AN78L12M
AVR 12V
RM1001
B3RAD0000038
REAR
Q1821
2SB0709A0L
Q1822
2SB0709A0L
Q1823
2SD0601A0L
Q1824
2SD0601A0L
Q1825
2SD0601A0L
D1821
LNJ107W5ARA1
POWER
LAMP
TEMP
SYNC
TPA36
NRS
A7
A5
A6
TO
R-P.C.B.
(R1)
TO
Z-P.C.B.
(Z3)
TO
Z-P.C.B.
(Z4)
D/A C



IC1051
C1AB00001523
SH R
1H INVERTER SAMPLE HOLD
IC1052
C1AB00001523
SH G
1H INVERTER SAMPLE HOLD
IC1053
C1AB00001523
SH B
1H INVERTER SAMPLE HOLD
LEVEL SHIFT
IC1057
C1AB00001522
LEVEL SHIFT
IC1058
C1AB00001522
TPA44
TPA42
TPA43
9.5Vp-p 20μs/div
Q1600
Q1603
Q1614
Q1615
Q1616
Q1617
Q1601
Q1604
Q1606
Q1607
Q1608
Q1609
Q1602
Q1605
Q1610
Q1611
Q1612
Q1613
NRS
TPA45
Rp
Gp
Bp
(51)
(52)
(53)
(54)
(55)
(56)
(57)
(58)
(59)
(60)
(61)
(62)
(63)
(64)
(65)
(66)
IC1061
AN78L12M
AVR 12V
IC1062
AN78L05M
AVR 5V
IC1060
C0FBBD000089
D/A CONVERTER
R-P.C. BOARD TNPA2602
TO A-P.C.B. (A7)
R1
STB3.3V
REMOCON1
DGND
R3001 47
R3002 33
D3001 MA3X157A0L
C3001 6.3V 47
C3002 0.1
RM3001 B3RAD0000038
FRONT
Vout
Vcc
GND
5
6
7
8
9

11.10. A-P.C.Board (PT-L520U/E) (5/5)

A-P.C.Board TXANP01VJN8 (PT-L520U/E) (5/5)

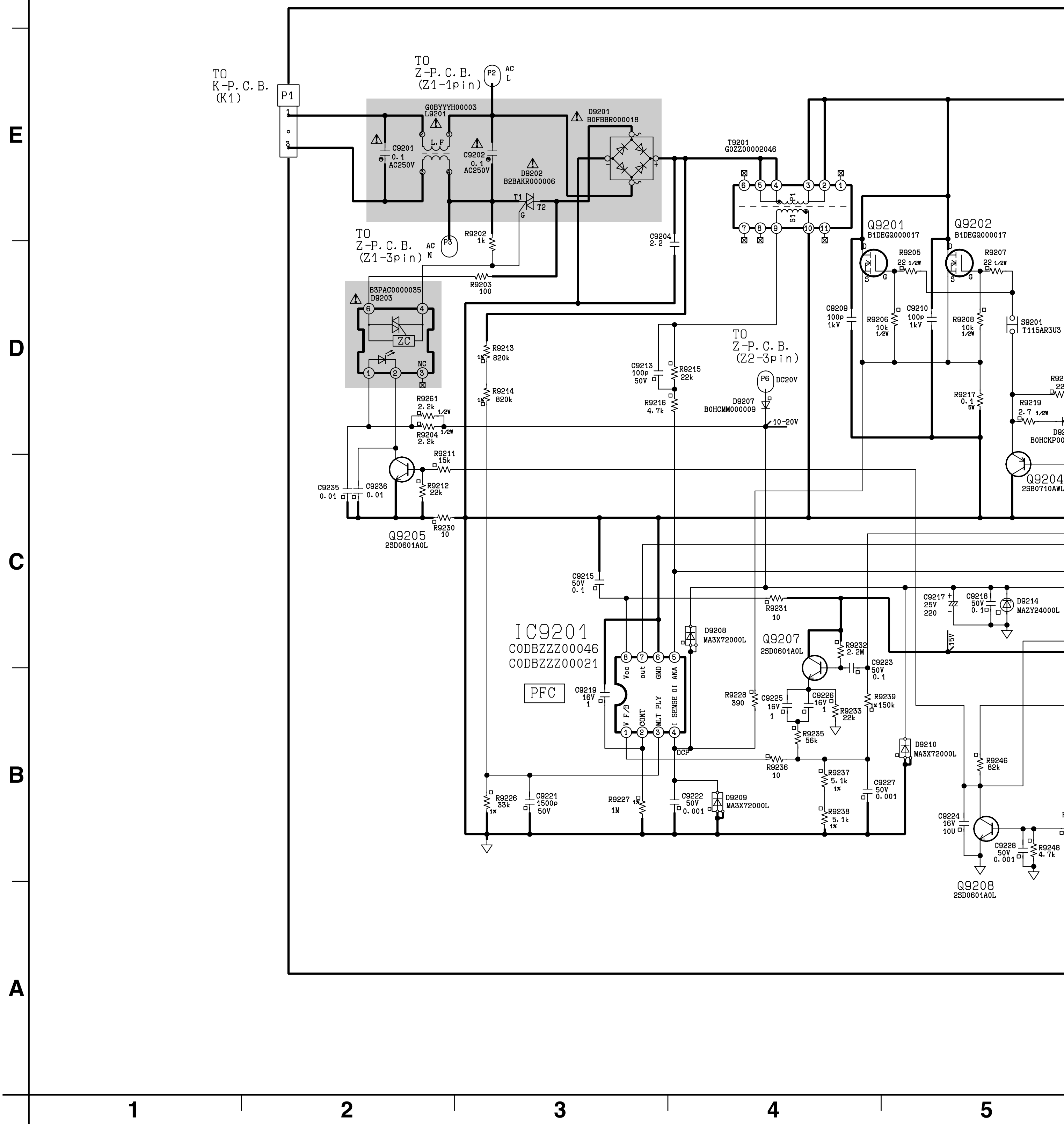


F
E
D
C
B
A
1
2
3
4
5
A1 R LCD PANEL
A2 G LCD PANEL
A3 B LCD PANEL
PANEL PIN NO
REVERSE FOR
CONNECTOR PIN NO
L1711 EXCML16A270U
L1712 EXCML16A270U
L1713 EXCML16A270U
JS1010
JS1011
JS1012
JS1013
JS1014
JS1015
AGND TPA46
Rp
Gp
Bp
RCOM
GCOM
BCOM

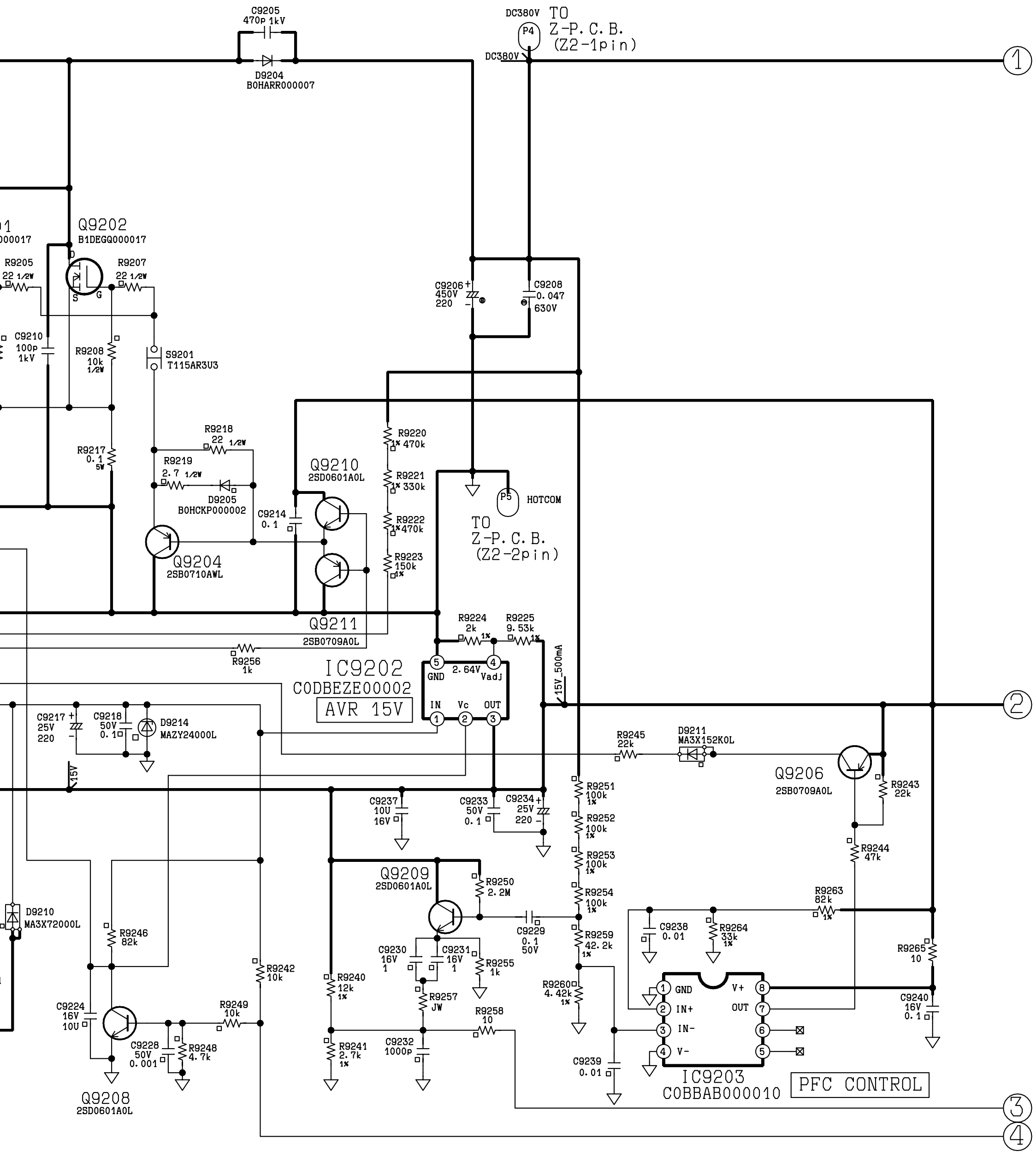
11.11. P-Module (1/2)

P-Module TNPA2586 (TXANPPQVJN7) (1/2)

Module Replacement
only supplied components IC9201-03, IC9601
D9207, D9607-08,


F
E
D
C
B
A
1
2
3
4
5
TO K-P.C.B. (K1)
P1
TO Z-P.C.B. (Z1-1pin)
P2 AC L
TO Z-P.C.B. (Z1-3pin)
AC N P3
G0BYYYH00003 L9201
L.F
C9201 0.1 AC250V
C9202 0.1 AC250V
D9201 B0FBBR000018
D9202 B2BAKR000006
T1 T2 G
R9202 1k
R9203 100
B3PAC0000035 D9203
ZC
NC
T9201 G0ZZ00002046
P1
S1
C9204 2.2
Q9201 B1DEGQ000017
Q9202 B1DEGQ000017
R9205 22 1/2W
R9207 22 1/2W
C9209 100p 1kV
R9206 10k 1/2W
C9210 100p 1kV
R9208 10k 1/2W
S9201 T115AR3U3
R9213 820k
R9214 820k
C9213 100p 50V
R9215 22k
R9216 4.7k
TO Z-P.C.B. (Z2-3pin)
P6 DC20V
D9207 B0HCMM000009
10-20V
R9217 0.1 5W
R9219 2.7 1/2W
B0HCKP0
Q9204 2SB0710AWL
R9261 2.2k 1/2W
R9204 2.2k 1/2W
R9211 15k
R9212 22k
C9235 0.01
C9236 0.01
R9230 10
Q9205 2SD0601A0L
C9215 50V 0.1
IC9201
C0DBZZZ00046
C0DBZZZ00021
PFC
Vcc out GND ANA
V F/B CONT MLT PLY I SENSE OI
OCP
C9219 16V 1
D9208 MA3X72000L
Q9207 2SD0601A0L
R9231 10
R9232 2.2M
C9223 50V 0.1
R9228 390
C9225 16V 1
C9226 16V 1
R9233 22k
R9235 56k
R9239 150k
C9217 25V 220
C9218 50V 0.1
D9214 MAZY24000L
15V
D9210 MA3X72000L
R9236 10
R9237 5.1k
R9238 5.1k
C9227 50V 0.001
R9226 33k
C9221 1500p 50V
R9227 1M
C9222 50V 0.001
D9209 MA3X72000L
R9246 82k
C9224 16V 10U
C9228 50V 0.001
R9248 4.7k
Q9208 2SD0601A0L

C9201-03, IC9601-02, Q9201-02, Q9205-06, Q9208, Q9601-02, Q9606-13, D9202-03,
9207, D9607-08, D9610-11, D9613-14, D9616-17, D9619-32, Z9601, R9231

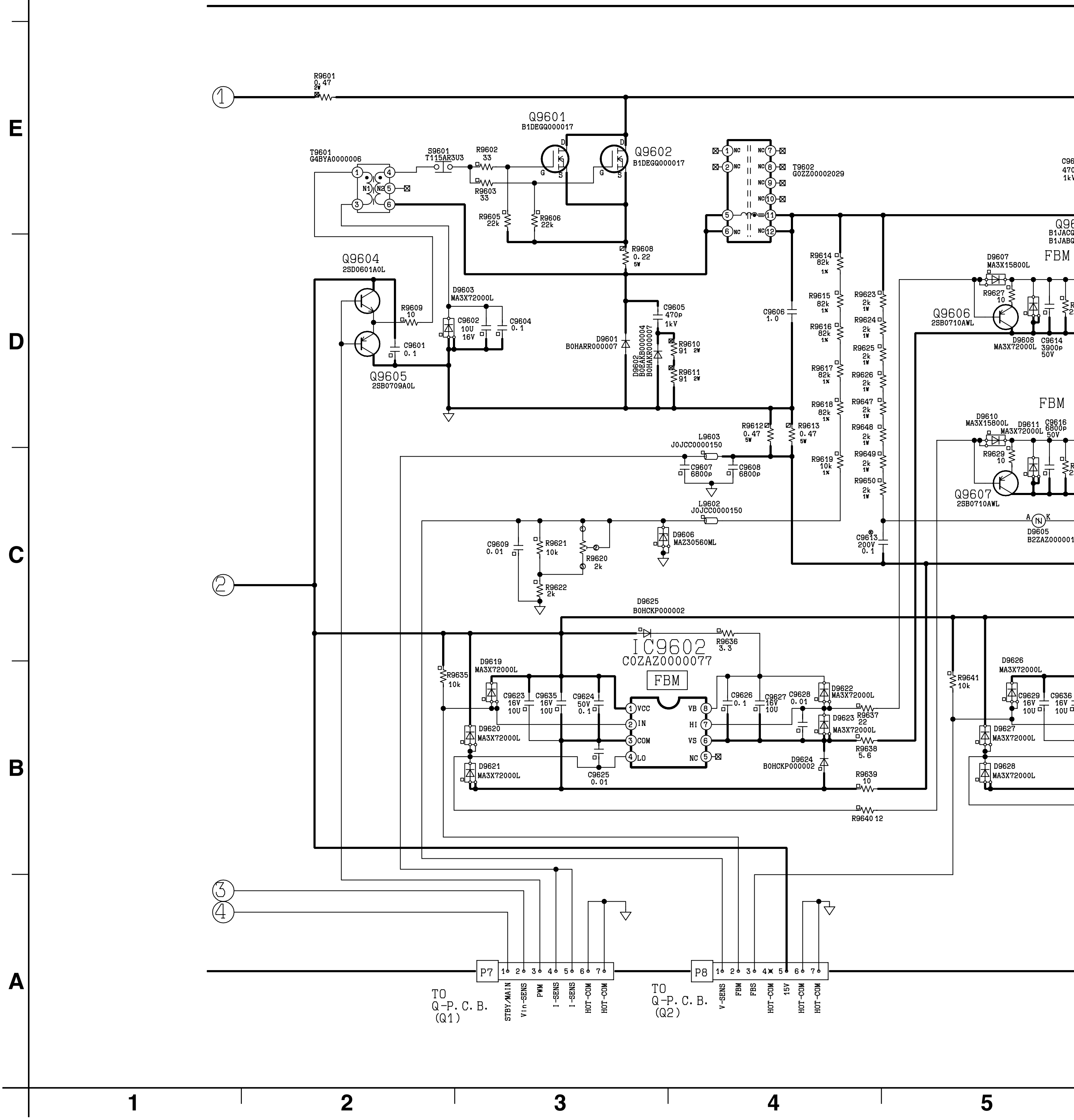

C9205 470P 1kV
D9204 B0HARR000007
DC380V
TO Z-P.C.B. (Z2-1pin)
P4
①
Q9202 B1DEGQ000017
R9205 22 1/2W
R9207 22 1/2W
C9210 100P 1kV
R9208 10k 1/2W
S9201 T115AR3U3
C9206 450V 220
C9208 0.047 630V
R9217 0.1 5W
R9218 22 1/2W
R9219 2.7 1/2W
D9205 B0HCKP000002
C9214 0.1
Q9204 2SB0710AWL
Q9210 2SD0601A0L
Q9211 2SB0709A0L
R9220 470k 1%
R9221 330k 1%
R9222 470k 1%
R9223 150k 1%
TO Z-P.C.B. (Z2-2pin)
P5 HOTCOM
R9224 2k 1%
R9225 9.53k 1%
R9256 1k
IC9202 C0DBEZE00002
AVR 15V
GND 2.64V Vadj
IN Vc OUT
15V 500mA
②
C9217 25V 220
C9218 50V 0.1
D9214 MAZY24000L
R9245 22k
D9211 MA3X152K0L
Q9206 2SB0709A0L
R9243 22k
R9244 47k
15V
C9237 10V 16V
C9233 50V 0.1
C9234 25V 220
R9251 100k 1%
R9252 100k 1%
R9253 100k 1%
R9254 100k 1%
R9259 42.2k 1%
R9260 4.42k 1%
Q9209 2SD0601A0L
R9250 2.2M
C9229 0.1 50V
C9230 16V 1
C9231 16V 1
R9255 1k
R9257 JW
R9258 10
C9232 1000P
R9240 12k 1%
R9241 2.7k 1%
R9242 10k
D9210 MA3X72000L
R9246 82k
C9224 16V 10U
C9228 50V 0.001
R9248 4.7k
R9249 10k
Q9208 2SD0601A0L
R9263 82k 1%
C9238 0.01
R9264 33k 1%
R9265 10
C9240 16V 0.1
C9239 0.01
IC9203 C0BBAB000010
PFC CONTROL
GND V+ IN+ OUT IN- V-
③
④

5 6 7 8 9

11.12. P-Module (2/2)

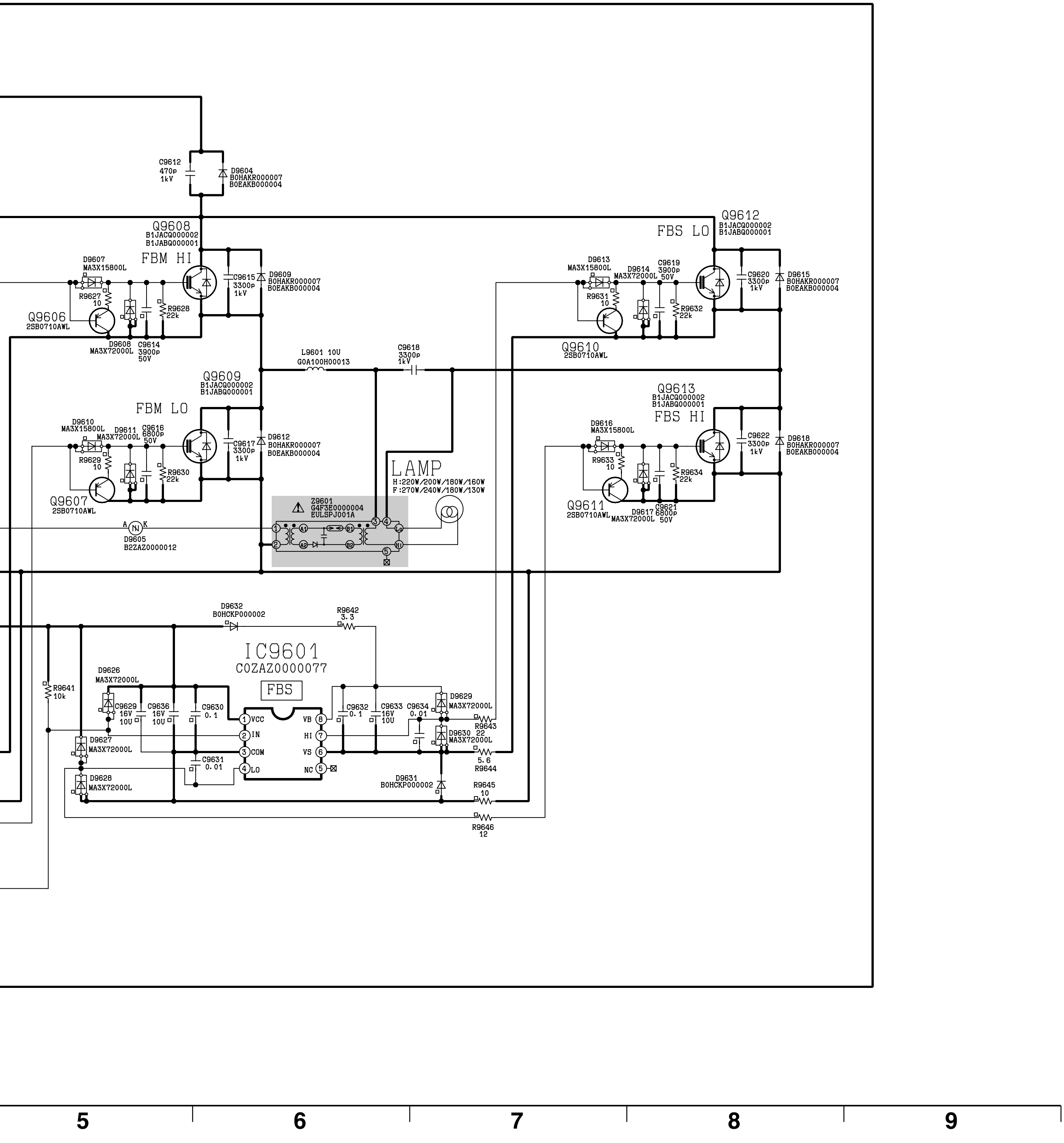
P-Module TNPA2586 (TXANPPQVJN7) (2/2)

Module Replacement
only supplied components IC9201-03, IC9601-
D9207, D9607-08,



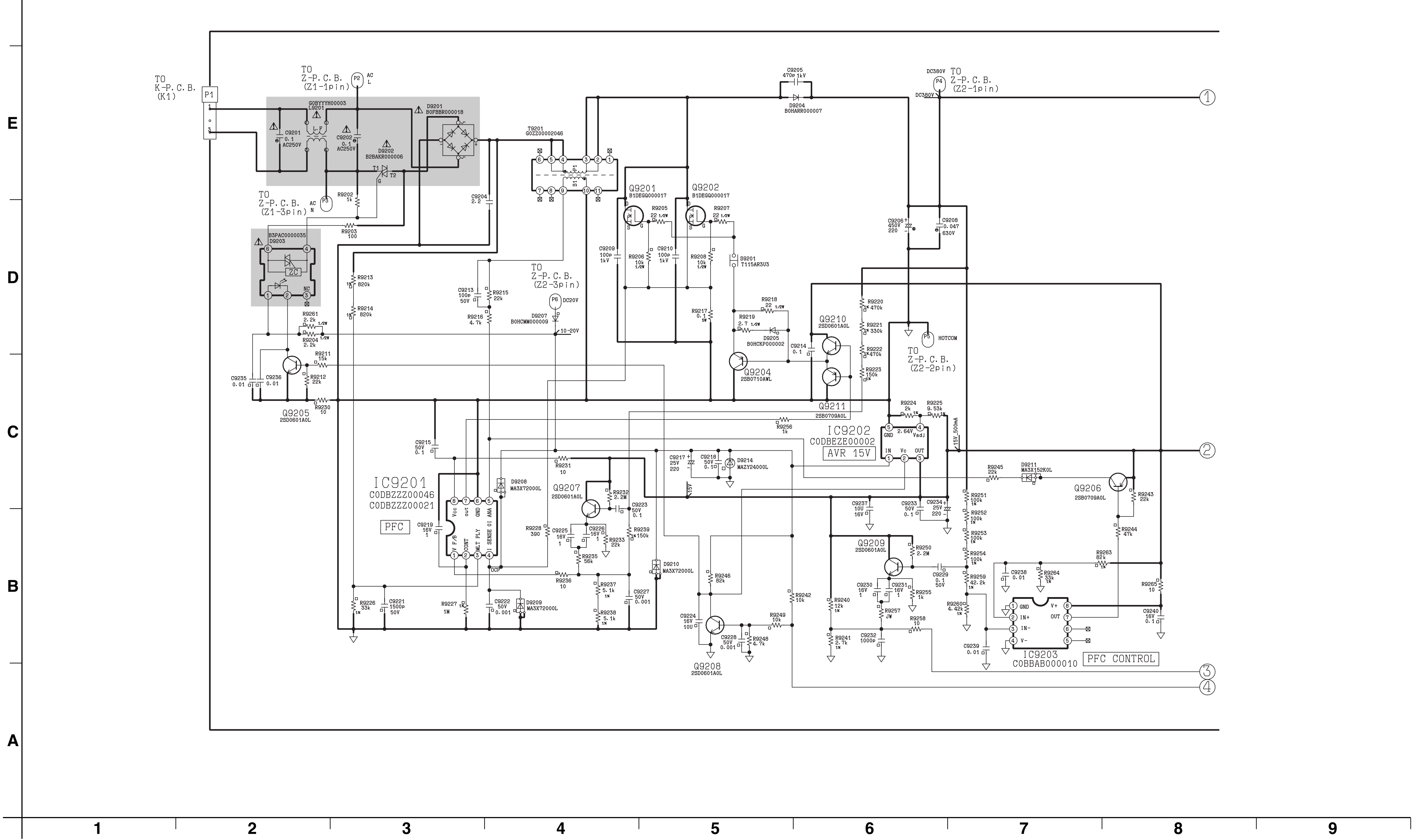
F
E
D
C
B
A
1
2
3
4
5
①
②
③
④
R9601 0.47 2W
Q9601 B1DEGQ000017
Q9602 B1DEGQ000017
T9601 G4BYA0000006
S9601 T115AR3U3
R9602 33
R9603 33
R9605 22k
R9606 22k
N1
N2
T9602 G0ZZ00002029
NC
R9608 0.22 5W
Q9604 2SD0601A0L
Q9605 2SB0709A0L
R9609 10
C9601 0.1
D9603 MA3X72000L
C9602 10U 16V
C9604 0.1
C9605 470p 1kV
D9601 B0HARR000007
D9602 B0EAKB000004 B0HAKR000007
R9610 91 2W
R9611 91 2W
C9606 1.0
R9614 82k 1%
R9615 82k 1%
R9616 82k 1%
R9617 82k 1%
R9618 82k 1%
R9619 10k 1%
R9623 2k 1W
R9624 2k 1W
R9625 2k 1W
R9626 2k 1W
R9647 2k 1W
R9648 2k 1W
R9649 2k 1W
R9650 2k 1W
R9612 0.47 5W
R9613 0.47 5W
L9603 J0JCC0000150
C9607 6800p
C9608 6800p
L9602 J0JCC0000150
D9606 MAZ30560ML
C9609 0.01
R9621 10k
R9620 2k
R9622 2k
C9613 200V 0.1
D9607 MA3X15800L
R9627 10
Q9606 2SB0710AWL
D9608 MA3X72000L
C9614 3900p 50V
FBM
D9610 MA3X15800L
D9611 MA3X72000L
C9616 6800p 50V
R9629 10
Q9607 2SB0710AWL
D9605 B2ZAZ000001
A
K
D9625 B0HCKP000002
IC9602 C0ZAZ0000077
FBM
R9636 3.3
R9635 10k
D9619 MA3X72000L
C9623 16V 10U
C9635 16V 10U
C9624 50V 0.1
1 VCC
2 IN
3 COM
4 LO
VB 8
HI 7
VS 6
NC 5
C9626 0.1
C9627 16V 10U
C9628 0.01
D9622 MA3X72000L
R9637 22
D9623 MA3X72000L
R9638 5.6
D9624 B0HCKP000002
R9639 10
R9640 12
D9620 MA3X72000L
D9621 MA3X72000L
C9625 0.01
R9641 10k
D9626 MA3X72000L
C9629 16V 10U
C9636 16V 10U
D9627 MA3X72000L
D9628 MA3X72000L
P7
1 2 3 4 5 6 7
STBY/MAIN
Vin-SENS
PWM
I-SENS
I-SENS
HOT-COM
HOT-COM
TO Q-P.C.B. (Q1)
P8
1 2 3 4 5 6 7
V-SENS
FBM
FBS
HOT-COM
15V
HOT-COM
HOT-COM
TO Q-P.C.B. (Q2)

9201-03, IC9601-02, Q9201-02, Q9205-06, Q9208, Q9601-02, Q9606-13, D9202-03, 9207, D9607-08, D9610-11, D9613-14, D9616-17, D9619-32, Z9601, R9231


C9612
470p
1kV
D9604
B0HAKR000007
B0EAKB000004
Q9608
B1JACQ000002
B1JABQ000001
FBM HI
D9607
MA3X15800L
R9627
10
C9615
3300p
1kV
D9609
B0HAKR000007
B0EAKB000004
R9628
22k
Q9606
2SB0710AWL
D9608
MA3X72000L
C9614
3900p
50V
Q9612
B1JACQ000002
B1JABQ000001
FBS LO
D9613
MA3X15800L
D9614
MA3X72000L
C9619
3900p
50V
R9631
10
C9620
3300p
1kV
D9615
B0HAKR000007
B0EAKB000004
R9632
22k
Q9610
2SB0710AWL
L9601 10U
G0A100H00013
C9618
3300p
1kV
Q9609
B1JACQ000002
B1JABQ000001
FBM LO
D9610
MA3X15800L
D9611
MA3X72000L
C9616
6800p
50V
R9629
10
C9617
3300p
1kV
D9612
B0HAKR000007
B0EAKB000004
R9630
22k
Q9607
2SB0710AWL
Q9613
B1JACQ000002
B1JABQ000001
FBS HI
D9616
MA3X15800L
R9633
10
C9622
3300p
1kV
D9618
B0HAKR000007
B0EAKB000004
R9634
22k
Q9611
2SB0710AWL
D9617
MA3X72000L
C9621
6800p
50V
LAMP
H:220W/200W/180W/160W
F:270W/240W/180W/130W
Z9601
G4F3E0000004
EULSPJ001A
A
K
D9605
B2ZAZ0000012
D9632
B0HCKP000002
R9642
3.3
IC9601
C0ZAZ0000077
FBS
D9626
MA3X72000L
R9641
10k
C9629
16V
10U
C9636
16V
10U
C9630
0.1
C9631
0.01
1 VCC
2 IN
3 COM
4 LO
VB 8
HI 7
VS 6
NC 5
C9632
0.1
C9633
16V
10U
C9634
0.01
D9629
MA3X72000L
R9643
22
D9630
MA3X72000L
5.6
R9644
D9627
MA3X72000L
D9628
MA3X72000L
D9631
B0HCKP000002
R9645
10
R9646
12
5
6
7
8
9

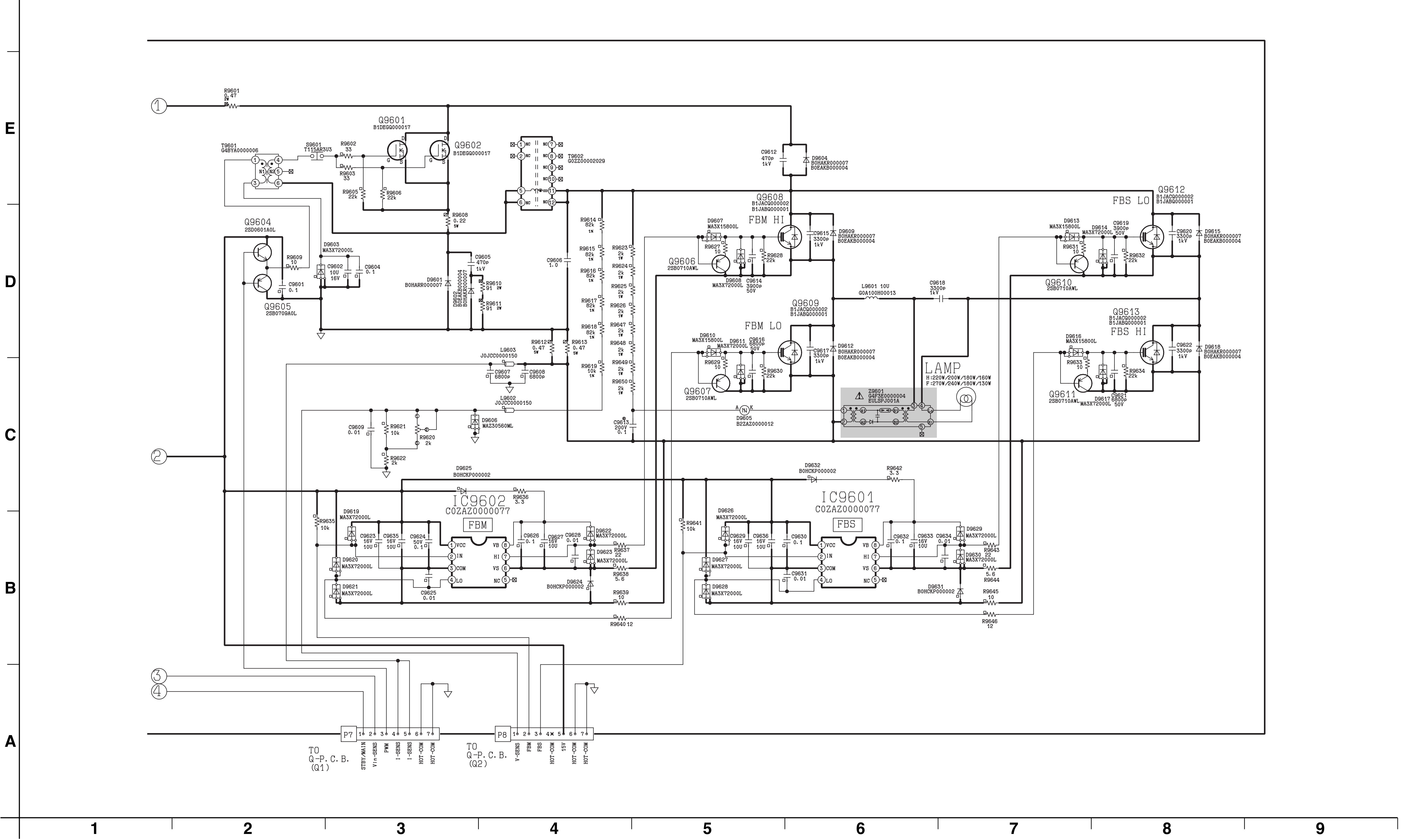
P-Module TNPA2586 (TXANPPQVJN7) (1/2)

Module Replacement
only supplied components IC9201-03, IC9601-02, Q9201-02, Q9205-06, Q9208, Q9601-02, Q9606-13, D9202-03, D9207, D9607-08, D9610-11, D9613-14, D9616-17, D9619-32, Z9601, R9231

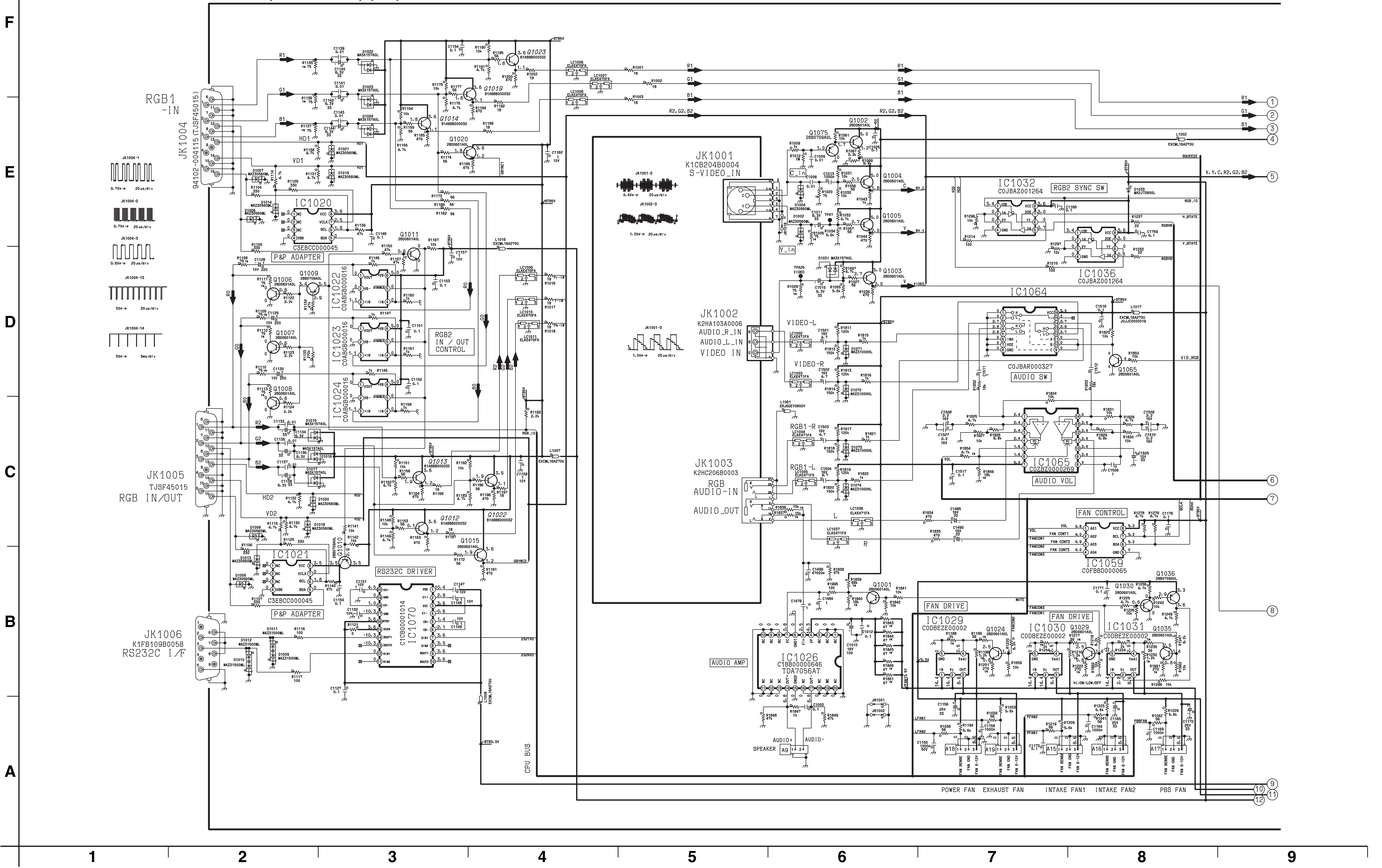

F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
TO K-P.C.B. (K1)
P1
TO Z-P.C.B. (Z1-1pin)
P2 AC L
G0BYYYH00003 L9201
L.F
C9201 0.1 AC250V
C9202 0.1 AC250V
D9201 B0FBBR000018
D9202 B2BAKR000006
T1 T2 G
TO Z-P.C.B. (Z1-3pin)
P3 AC N
R9202 1k
R9203 100
B3PAC0000035 D9203
ZC
NC
C9204 2.2
T9201 G0ZZ00002046
P1 S1
C9205 470p 1kV
D9204 B0HARR000007
DC380V
P4
TO Z-P.C.B. (Z2-1pin)
①
Q9201 B1DEGG000017
Q9202 B1DEGG000017
R9205 22 1/2W
R9207 22 1/2W
C9209 100p 1kV
R9206 10k 1/2W
C9210 100p 1kV
R9208 10k 1/2W
S9201 T115AR3U3
R9217 0.1 5W
C9206 450V 220
C9208 0.047 630V
R9213 820k
R9214 820k
C9213 100p 50V
R9215 22k
R9216 4.7k
TO Z-P.C.B. (Z2-3pin)
P6 DC20V
D9207 B0HCMM000009
10-20V
R9261 2.2k 1/2W
R9204 2.2k 1/2W
R9211 15k
R9212 22k
C9235 0.01
C9236 0.01
R9230 10
Q9205 2SD0601A0L
R9218 22 1/2W
R9219 2.7 1/2W
D9205 B0HCKP000002
C9214 0.1
Q9204 2SB0710AWL
Q9210 2SD0601A0L
Q9211 2SB0709A0L
R9220 470k
R9221 330k
R9222 470k
R9223 150k
P5 HOTCOM
TO Z-P.C.B. (Z2-2pin)
R9224 2k
R9225 9.53k
R9256 1k
IC9202 C0DBEZE00002
AVR 15V
GND 2.64V Vadj
IN Vc OUT
15V 500mA
②
C9215 50V 0.1
IC9201 C0DBZZZ00046 C0DBZZZ00021
PFC
Vcc out GND ANA
V F/B CONT MLT PLY I SENSE 01
OCP
C9219 16V 1
D9208 MA3X72000L
R9231 10
Q9207 2SD0601A0L
R9232 2.2M
C9223 50V 0.1
R9228 390
C9225 16V 1
C9226 16V 1
R9233 22k
R9235 56k
R9239 150k
R9236 10
R9237 5.1k
R9238 5.1k
C9227 50V 0.001
D9210 MA3X72000L
C9222 50V 0.001
D9209 MA3X72000L
R9226 33k
C9221 1500p 50V
R9227 1M
C9217 25V 220
C9218 50V 0.1
D9214 MAZY24000L
15V
C9237 10U 16V
C9233 50V 0.1
C9234 25V 220
R9245 22k
D9211 MA3X152K0L
Q9206 2SB0709A0L
R9243 22k
R9244 47k
R9251 100k
R9252 100k
R9253 100k
R9254 100k
R9259 42.2k
R9260 4.42k
Q9209 2SD0601A0L
R9250 2.2M
C9229 0.1 50V
C9230 16V 1
C9231 16V 1
R9255 1k
R9257 JW
C9232 1000p
R9258 10
R9240 12k
R9241 2.7k
R9246 82k
R9242 10k
C9224 16V 10U
Q9208 2SD0601A0L
C9228 50V 0.001
R9248 4.7k
R9249 10k
C9238 0.01
R9264 33k
R9263 82k
R9265 10
C9240 16V 0.1
C9239 0.01
GND V+
IN+ OUT
IN-
V-
IC9203 C0BBAB000010
PFC CONTROL
③
④

P-Module TNPA2586 (TXANPPQVJN7) (2/2)

Module Replacement
only supplied components IC9201-03, IC9601-02, Q9201-02, Q9205-06, Q9208, Q9601-02, Q9606-13, D9202-03,
D9207, D9607-08, D9610-11, D9613-14, D9616-17, D9619-32, Z9601, R9231


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
R9601 0.47 2W
Q9601 B1DEGQ000017
Q9602 B1DEGQ000017
T9601 G4BYA0000006
S9601 T115AR3U3
R9602 33
R9603 33
R9605 22k
R9606 22k
R9608 0.22 5W
T9602 G0ZZ00002029
NC
C9612 470p 1kV
D9604 B0HAKR000007 B0EAKB000004
Q9604 2SD0601A0L
R9609 10
D9603 MA3X72000L
C9602 10U 16V
C9604 0.1
C9601 0.1
Q9605 2SB0709A0L
D9601 B0HARR000007
D9602 B0EAKB000004 B0HAKR000007
C9605 470p 1kV
R9610 91 2W
R9611 91 2W
C9606 1.0
R9614 82k 1W
R9615 82k 1W
R9616 82k 1W
R9617 82k 1W
R9618 82k 1W
R9619 10k 1W
R9623 2k 1W
R9624 2k 1W
R9625 2k 1W
R9626 2k 1W
R9647 2k 1W
R9648 2k 1W
R9649 2k 1W
R9650 2k 1W
R9612 0.47 5W
R9613 0.47 5W
L9603 J0JCC0000150
C9607 6800p
C9608 6800p
L9602 J0JCC0000150
C9609 0.01
R9621 10k
R9620 2k
R9622 2k
D9606 MAZ30560ML
C9613 200V 0.1
Q9608 B1JACQ000002 B1JABQ000001
FBM HI
D9607 MA3X15800L
R9627 10
C9615 3300p 1kV
D9609 B0HAKR000007 B0EAKB000004
R9628 22k
Q9606 2SB0710AWL
D9608 MA3X72000L
C9614 3900p 50V
Q9609 B1JACQ000002 B1JABQ000001
FBM LO
D9610 MA3X15800L
D9611 MA3X72000L
C9616 6800p 50V
R9629 10
R9630 22k
C9617 3300p 1kV
D9612 B0HAKR000007 B0EAKB000004
Q9607 2SB0710AWL
D9605 B2ZAZ0000012
A
K
L9601 10U G0A100H00013
C9618 3300p 1kV
Z9601 G4F3E0000004 EULSPJ001A
LAMP
H:220W/200W/180W/160W
F:270W/240W/180W/130W
Q9612 B1JACQ000002 B1JABQ000001
FBS LO
D9613 MA3X15800L
D9614 MA3X72000L
C9619 3900p 50V
R9631 10
R9632 22k
C9620 3300p 1kV
D9615 B0HAKR000007 B0EAKB000004
Q9610 2SB0710AWL
Q9613 B1JACQ000002 B1JABQ000001
FBS HI
D9616 MA3X15800L
R9633 10
R9634 22k
C9622 3300p 1kV
D9618 B0HAKR000007 B0EAKB000004
Q9611 2SB0710AWL
D9617 MA3X72000L
C9621 6800p 50V
D9625 B0HCKP000002
IC9602 C0ZAZ0000077
FBM
R9636 3.3
R9635 10k
D9619 MA3X72000L
C9623 16V 10U
C9635 16V 10U
C9624 50V 0.1
C9626 0.1
C9627 16V 10U
C9628 0.01
D9622 MA3X72000L
D9623 MA3X72000L
R9637 22
R9638 5.6
R9639 10
R9640 12
D9624 B0HCKP000002
D9620 MA3X72000L
D9621 MA3X72000L
C9625 0.01
VCC
IN
COM
LO
VB
HI
VS
NC
D9632 B0HCKP000002
R9642 3.3
IC9601 C0ZAZ0000077
FBS
R9641 10k
D9626 MA3X72000L
C9629 16V 10U
C9636 16V 10U
C9630 0.1
C9631 0.01
C9632 0.1
C9633 16V 10U
C9634 0.01
D9629 MA3X72000L
D9630 MA3X72000L
R9643 22
R9644 5.6
R9645 10
R9646 12
D9631 B0HCKP000002
D9627 MA3X72000L
D9628 MA3X72000L
①
②
③
④
P7
TO Q-P.C.B. (Q1)
STBY/MAIN
Vin-SENS
PWM
I-SENS
I-SENS
HOT-COM
HOT-COM
P8
TO Q-P.C.B. (Q2)
V-SENS
FBM
FBS
HOT-COM
15V
HOT-COM
HOT-COM

A-P.C.Board TXANP01VJN8 (PT-L520U/E) (1/5)


F
E
D
C
B
A
1
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6
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8
9
RGB1 -IN
JK1004
94102-004115(TJSF45015)
JK1004-1
0.7Vp-p 20μs/div
JK1004-2
JK1004-3
0.6Vp-p 20μs/div
JK1004-13
5Vp-p 20μs/div
JK1004-14
5Vp-p 5ms/div
IC1020
C3EBCC000045
P&P ADAPTER
IC1022
C0ABGB000016
IC1023
C0ABGB000016
IC1024
C0ABGB000016
RGB2 IN / OUT CONTROL
Q1023
Q1019
Q1014
Q1020
Q1011
Q1006
Q1009
Q1007
Q1008
Q1013
Q1012
Q1022
Q1015
Q1010
JK1005
TJSF45015
RGB IN/OUT
IC1021
C3EBCC000045
P&P ADAPTER
RS232C DRIVER
IC1070
C1CB0001014
JK1006
K1FB109B0058
RS232C I/F
CPU BUS
JK1001
K1CB204B0004
S-VIDEO_IN
JK1001-2
0.4Vp-p 20μs/div
JK1002-3
1.0Vp-p 20μs/div
JK1002
K2HA103A0006
AUDIO_R_IN
AUDIO_L_IN
VIDEO IN
JK1001-3
1.0Vp-p 20μs/div
JK1003
K2HC206B0003
RGB AUDIO-IN
AUDIO_OUT
Q1075
Q1002
Q1004
Q1005
Q1003
C_in
Y_in
IC1032
C0JBAZ001264
RGB2 SYNC SW
IC1036
C0JBAZ001264
IC1064
C0JBAR000327
AUDIO SW
Q1065
IC1065
C0ZBZ0000269
AUDIO VOL
FAN CONTROL
IC1059
C0FBBD000065
Q1001
AUDIO AMP
IC1026
C1BB00000646
TDA7056AT
SPEAKER
AUDIO+
AUDIO-
FAN DRIVE
IC1029
C0DBEZE00002
Q1024
FAN DRIVE
IC1030
C0DBEZE00002
Q1029
IC1031
C0DBEZE00002
Q1035
Q1030
Q1036
HI/ON-LOW/OFF
POWER FAN
EXHAUST FAN
INTAKE FAN1
INTAKE FAN2
PBS FAN
R1
G1
B1
R2,G2,B2
V,Y,C,R2,G2,B2
①
②
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④
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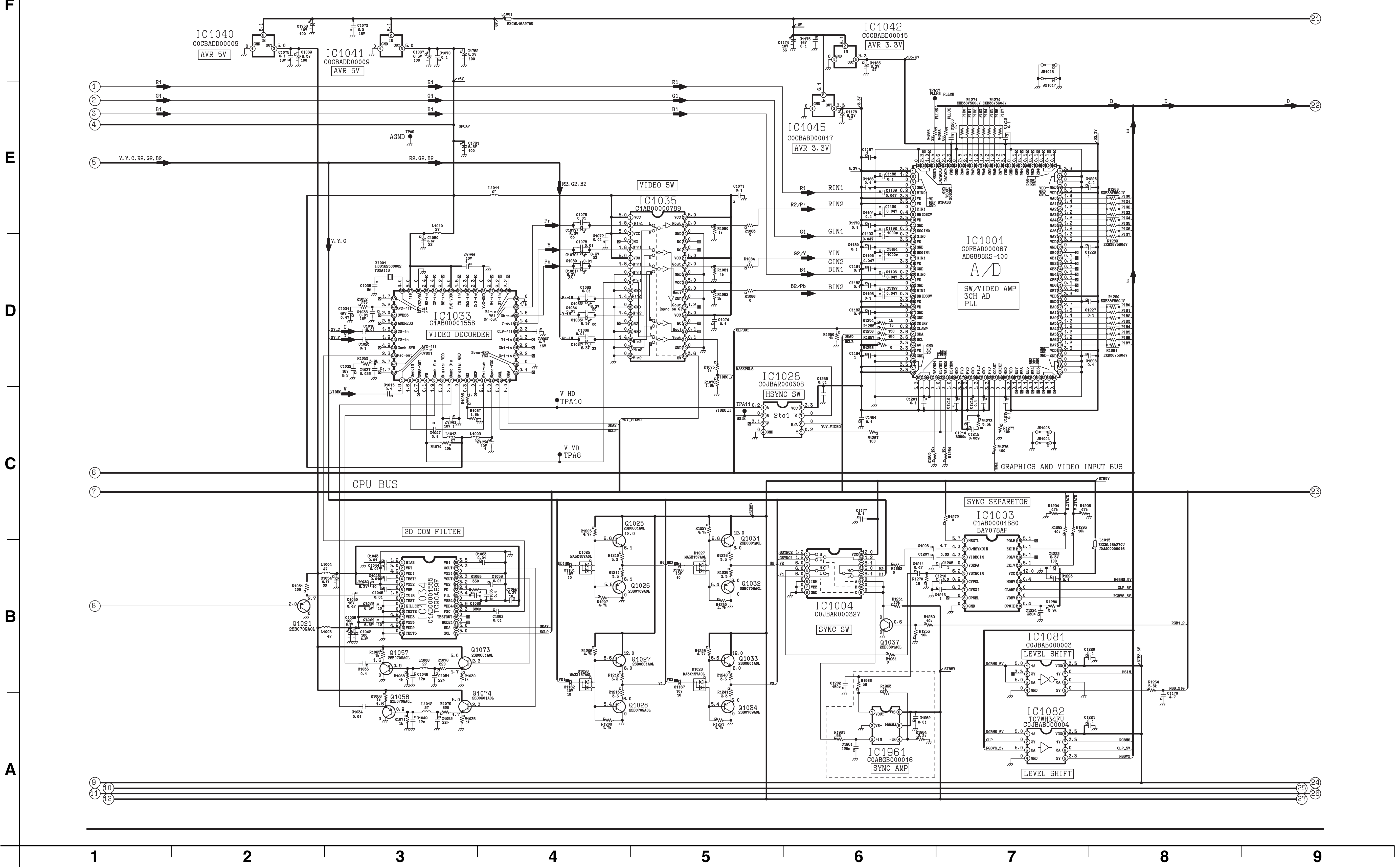
A-P.C.Board TXANP01VJN8 (PT-L520U/E) (2/5)


IC1040
C0CBADD00009
AVR 5V
IC1041
C0CBADD00009
AVR 5V
IC1042
C0CBABD00015
AVR 3.3V
IC1045
C0CBABD00017
AVR 3.3V
L1001
EXCML16A270U
VIDEO SW
IC1035
C1AB00000789
IC1033
C1AB00001556
VIDEO DECORDER
X1001
IC1001
C0FBAD000067
AD9888KS-100
A/D
SW/VIDEO AMP
3CH AD
PLL
IC1028
C0JBAR000308
HSYNC SW
2to1
V HD
TPA10
V VD
TPA8
CPU BUS
GRAPHICS AND VIDEO INPUT BUS
2D COM FILTER
IC1034
C1AB00001555
TC90A69F
Q1021
Q1057
Q1058
Q1073
Q1074
Q1025
Q1026
Q1027
Q1028
Q1031
Q1032
Q1033
Q1034
Q1037
IC1004
C0JBAR000327
SYNC SW
SYNC SEPARETOR
IC1003
C1AB00001680
BA7078AF
IC1961
C0ABGB000016
SYNC AMP
IC1081
C0JBAB000003
LEVEL SHIFT
IC1082
TC7WH34FU
C0JBAB000004
LEVEL SHIFT
AGND
R1
G1
B1
SPCAP
V,Y,C,R2,G2,B2
R2,G2,B2
V,Y,C
RIN1
RIN2
GIN1
YIN
GIN2
BIN1
BIN2
Pr
Y
Pb
D
F
E
D
C
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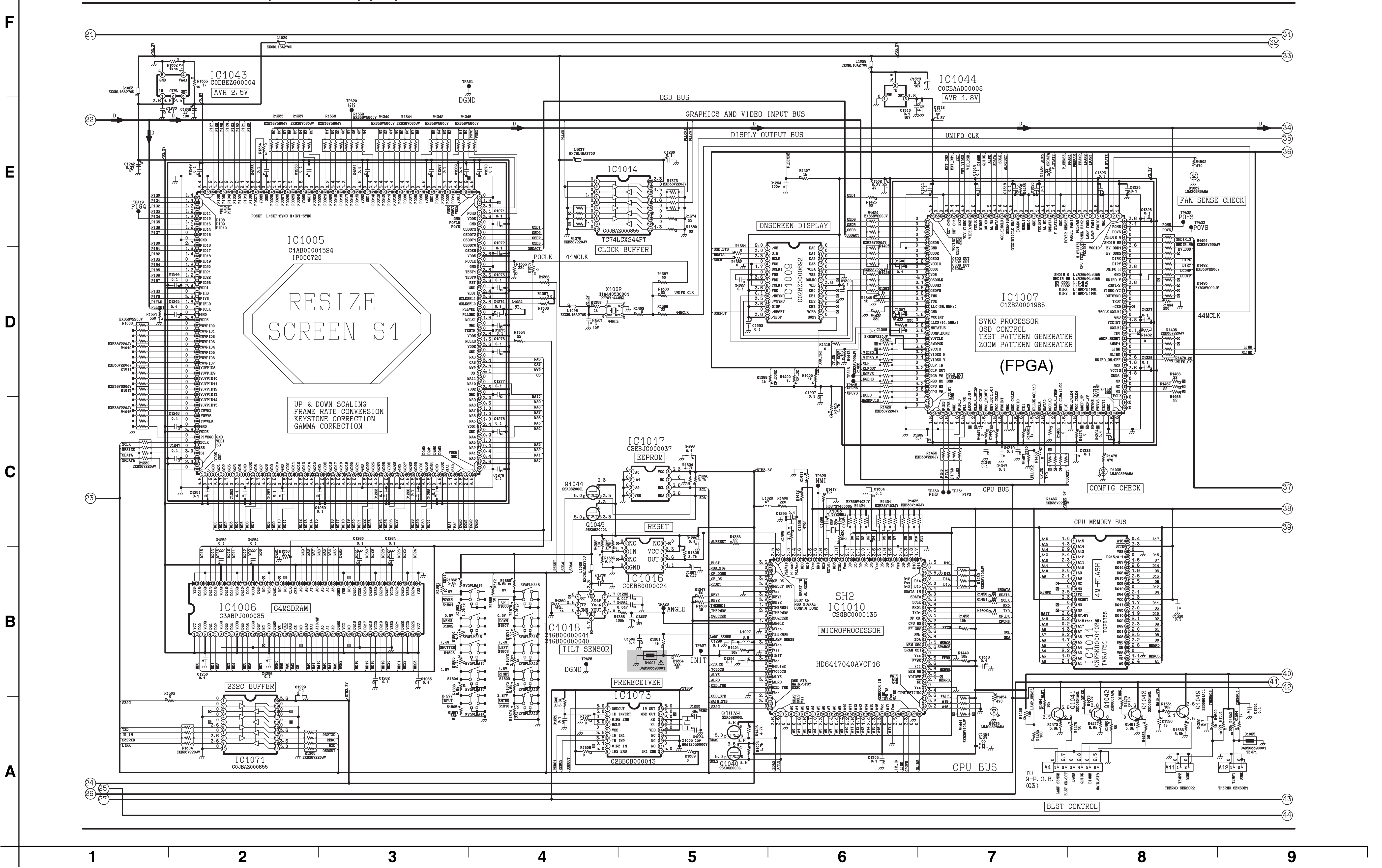
A-P.C.Board TXANP01VJN8 (PT-L520U/E) (3/5)



F
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IC1043
C0DBEZG00004
AVR 2.5V
IC1044
C0CBAAD00008
AVR 1.8V
OSD BUS
GRAPHICS AND VIDEO INPUT BUS
DISPLY OUTPUT BUS
UNIFO_CLK
IC1014
C0JBAZ000855
TC74LCX244FT
CLOCK BUFFER
IC1005
C1AB00001524
IP00C720
RESIZE SCREEN S1
UP & DOWN SCALING
FRAME RATE CONVERSION
KEYSTONE CORRECTION
GAMMA CORRECTION
POEXT L:EXT-SYNC H:INT-SYNC
POCLK
44MCLK
X1002
H1A4405B0001
UNIFO CLK
ONSCREEN DISPLAY
IC1009
C0ZBZ0000092
IC1007
C1ZBZ0001965
SYNC PROCESSOR
OSD CONTROL
TEST PATTERN GENERATER
ZOOM PATTERN GENERATER
(FPGA)
FAN SENSE CHECK
CONFIG CHECK
CPU BUS
CPU MEMORY BUS
IC1011
C3FBKD000103
TVRJ751
4M-FLASH
IC1017
C3EBJC000037
EEPROM
Q1044
Q1045
2SK0620OOL
RESET
IC1016
C0EBB0000024
IC1018
C1GB00000041
C1GB00000040
TILT SENSOR
ANGLE
INIT
DGND
D1001
PRERECEIVER
IC1073
C2BBCB000013
SH2
IC1010
C2GBC0000135
MICROPROCESSOR
HD6417040AVCF16
IC1006
C3ABPJ000035
64MSDRAM
232C BUFFER
IC1071
C0JBAZ000855
Q1039
Q1040
POWER
MENU
SHUTTER
INPUT
UP
DOWN
LEFT
RIGHT
ENTER
Q1041
Q1042
Q1043
Q1049
TO Q-P.C.B. (Q3)
LAMP SENSE
BLST ON/OFF
DGND
QUICK
DIMMR
MAIN/STB
THERMO SENSOR2
THERMO SENSOR1
BLST CONTROL
A4
A11
A12
D1035
D1036
D1037
LNJ208R8ARA
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